

**TBPOC CONFERENCE CALL
August 3, 2011
10:00 am – 10:30 am**

Topic		Presenter	Time	Desired Outcome
1. CHAIR'S REPORT				
a. Press Relations		S. Heminger, BATA	5 min	Information
2. CONSENT CALENDAR				
a. TBPOC Meeting Minutes:				
1) June 2, 2011 Meeting Minutes*		A. Fremier, BATA	5 min	Approval
b. TBSRP 2011 Second Quarter Project Progress and Financial Update*		P. Lee, BATA	5 min	Approval
c. Contract Change Orders (CCOs):				
1) Yerba Buena Island Transition Structure (YBITS) No. 1 CCO 524-S1 (Oakland Detour Westbound Bridge Widening Foundations)*		D. Noel, CTC	5 min	Approval
3. OTHER BUSINESS				
Next TBPOC Meeting: September 1, 2011, 1:00 PM – 4:00 PM 1120 N Street, Sacramento				

* Attachments

Memorandum

TO: Toll Bridge Program Oversight Committee (TBPOC) **DATE:** July 27, 2011

FR: Steve Heminger, Executive Director, BATA, TBPOC Chair

RE: Agenda No. - 1a

Item-	Chair's Report Press Relations
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Recommendation:

For Information Only

Cost:

N/A

Schedule Impacts:

N/A

Discussion:

A verbal update on press relations will be provided at the August 3rd TBPOC conference call.

Attachment(s):

N/A

Memorandum

TO: Toll Bridge Program Oversight Committee (TBPOC) **DATE:** July 27, 2011

FR: Andrew Fremier, Deputy Executive Director, BATA

RE: Agenda No. - 1a1
Consent Calendar
Item- TBPOC Meeting Minutes
June 2, 2011 Meeting Minutes

Recommendation:

APPROVAL

Cost:

N/A

Schedule Impacts:

N/A

Discussion:

The Program Management Team has reviewed and requests TBPOC approval of the June 2, 2011 Meeting Minutes.

Attachment(s):

June 2, 2011 Meeting Minutes



TOLL BRIDGE PROGRAM OVERSIGHT COMMITTEE

CALTRANS BAY AREA TOLL AUTHORITY CALIFORNIA TRANSPORTATION COMMISSION

MEETING MINUTES

June 2, 2011, 1:00pm – 4:00pm

Caltrans HQ, Director's Conference Room, 1121 N Street, Sacramento, CA

TBPOC – PMT pre-briefing: 1:00pm – 2:00pm

TBPOC meeting: 2:00am – 4:00pm

Attendees: TBPOC Members: Steve Heminger (Chair), Malcolm Dougherty, and Andre Boutros (via phone for Bimla Rhinehart)
PMT Members: Tony Anziano, Andrew Fremier, and Stephen Maller
Participants: Michele DiFrancia, Rich Foley, Mike Forner, Ted Hall, Beatriz Lacson, Brian Maroney, Bart Ney, Dina Noel, Bob Pieplow, Bijan Sartipi, Peter Siegenthaler, Jon Tapping, Ken Terpstra, Chris Traina, and Jason Weinstein

Convened: 2:09 PM

Items		Action
1. CHAIR'S REPORT		
• N/A		
2. CONSENT CALENDAR		
a. TBPOC Meeting Minutes		
1) May 5, 2011 Meeting Minutes		
b. Contract Change Orders (CCOS):		
1) YBITS 1 CCO 10-S3 (Additional Shoring Enhancement), \$283,475		
2) YBITS 1 CCO 509-S1 (Oakland Detour EDMUD Overcrossing Bridge), \$50,023		
3) YBITS 1 CCO 526-S0(Oakland Detour WB Roadway), not to exceed \$6,100,000		
4) YBITS 1 CCO 529-S0 (Oakland Detour WB Structure), not to exceed \$8,000,000		
5) YBITS1 CCO 902-S0 (\$13,206,383) & SAS CCO 167-S1 (\$258,326), (Furnish & Install LED Light Fixtures and Install Light Poles), total amount of \$13,464,709		
6) Dumbarton CCO 27-S0 (Welding Modifications)\$5,223,100		
		• The TBPOC APPROVED the Consent Calendar, as presented, with a change to Item 2b5, YBITS1 CCO 902-S0, amount to \$13,206,683.

(continued)

Items	Action
<p>3. PROGRESS REPORTS</p> <p>a. TBSRP 1st Quarter 2011 Risk Management Update</p> <ul style="list-style-type: none">• J. Tapping gave an overview of the risk management results during the first quarter 2011 in a Risk Management Briefing covering Adequacy of Reserves and Trend, Risk Management Performance and Look Ahead to Q2 2011.○ The Q1 2011 Adequacy of Reserves and Program Contingency Trend curves look good.○ Architectural items yet to be approved by the TBPOC are not included in the Risk Management Cost (RMC).○ An estimated savings of \$60 million in forecast Capital Outlay Support (COS) should result with seismic safety opening in September 2013 and SAS contract completion in February 2014.• T. Anziano commended J. Tapping on receiving the prestigious Purcell Award. The TBPOC also extended their congratulations. <p>b. Draft May 2011 Project Progress and Financial Update</p> <ul style="list-style-type: none">• P. Lee presented, for TBPOC approval, the May 2011 monthly report which is scheduled for release on June 7, 2011.	<ul style="list-style-type: none">• The TBPOC APPROVED the May 2011 Project Progress and Financial Update.
<p>4. PROGRAM ISSUES</p> <p>a. Demolition Contract</p> <ul style="list-style-type: none">• B. Maroney presented, for TBPOC approval, the recommended contract packaging options for the following dismantling/demolition projects:<ul style="list-style-type: none">○ Dismantling contracts should be advertised as A+B contracts under “performance-based”	<ul style="list-style-type: none">• The TBPOC APPROVED the recommended contract packaging options, as well as the additional 1), 2) and 3) recommendations presented plus the following: 4) Apply further due diligence

(continued)

Items	Action
<ul style="list-style-type: none"> ○ specifications; ○ Cantilever superstructure from E1 to E4; ○ YBI Detour superstructure and substructure from E1 to tunnel; ○ Steel trusses superstructures (504-foot and 288-foot) from E4 to E23; and ○ Marine foundation removal. 	<ul style="list-style-type: none"> on use and ownership of the E1 pier post demolition;
<ul style="list-style-type: none"> • Additionally, B. Maroney gave a slide presentation on the following recommendations: <ol style="list-style-type: none"> 1) Place cantilever removal in YBITS 2 contract; 2) Develop and execute a thorough structural condition report for TBP and contractor use for bidding and construction, and present to TBSSPRP; and 3) Initiate negotiations for CCO to obtain YBI space required for YBITS2 contractor. ○ Discussion topics included: Objectives, pros and cons of contract delivery options, environmental restrictions, re-use opportunities and funding sources. 	<ul style="list-style-type: none"> 5) Show how the recommendations affect current funding; and 6) Report on recommendations 2 & 3 cost and schedule.
<p>b. Architecture Issues (Top of Tower/Removal of False Suspender Cables and Cable Brackets)</p> <ul style="list-style-type: none"> • P. Siegenthaler requested TBPOC approval to continue exploring the possibility of extending the tower elevator and the removal of the false suspender cables and cable brackets. ○ Discussion topics included: Cost, schedule impacts, and effect of removal of false suspender cable and brackets on bridge design. 	<ul style="list-style-type: none"> • The TBPOC APPROVED the concepts presented with the following revisions: <ul style="list-style-type: none"> ○ Remove the one cable bracket in the way of the elevator extension and defer action on the other three cable brackets; and ○ Reduce the CCO to be negotiated to an amount not to exceed \$8 million.
<p>c. Tour Policy</p> <ul style="list-style-type: none"> • B. Ney gave a presentation covering tour activity statistics over the past 	

(continued)

Items	Action
<p>two years and tour participation predictions through the next two years leading up to project completion. A summary of tour protocol revisions was also provided.</p> <ul style="list-style-type: none">○ Discussion topics included: Visiting scenarios, tour capacity issues, exceptions to following tour protocol.	
<p>5. SAN FRANCISCO-OAKLAND BAY BRIDGE (SFOBB) UPDATES</p> <p>a. Self-Anchored Suspension (SAS) Span</p> <p>1) Update</p> <ul style="list-style-type: none">• T. Anziano gave a brief project status.○ The next significant shipment is arriving tomorrow with the tower head façade and roadway boxes 12 east and west.○ ABF/ZPMC are pushing hard to meet the scheduled shipment on July 11, 2011.• At the Chair's request, a discussion on the Hinge K interface between the SAS and YBITS1 contracts was added to the meeting agenda.○ P. Lee provided as references a simplified Hinge K Schedule and a staff presentation on Hinge K Coordination – SAS & YBITS.○ Discussion topics included: Description of location, work to be done, the problem (YBITS1/MCM and SAS/ABF schedules are not synchronized), possible solutions, and course of action.○ It was the consensus to defer decision to mid-2012, continue with discussions and/or negotiations with pertinent parties, and provide periodic status reports to the TBPOC in the interim. <p>b. Yerba Buena Island Transition</p>	

(continued)

Items	Action
<p>Structure (YBITS) No. 1</p> <p>1) Update</p> <ul style="list-style-type: none"> • T. Anziano reported that work on the project is going well, and U. S. Coast Guard coordination issues are being managed. <p>2) Fund Allocation</p> <ul style="list-style-type: none"> • P. Lee presented, for TBPOC approval, a supplemental budget change of \$13.2 million to the YBITS No. 1 contract. The funds will be used to furnish, install and integrate various utilities/facilities along the YBI Transition, Skyway and Oakland Touchdown structures of the new SFOBB East Span. <p>c. Oakland Touchdown (OTD) No. 2</p> <p>1) Oakland Detour Update</p> <ul style="list-style-type: none"> • B. Maroney reported that MCM is moving very fast with the Oakland Detour work. ○ The eastbound detour traffic switch went off smoothly on Memorial Day, May 30, 2011. MCM finished the work two hours ahead of schedule. <ul style="list-style-type: none"> ➤ The Chair congratulated everybody for a job well done. ➤ M. Dougherty gave special kudos to Construction. ○ An assessment on the westbound detour will be made when the final plans are in. The target traffic switch date is after the holiday season, sometime in early 2012. 	<ul style="list-style-type: none"> • The TBPOC APPROVED the proposed allocation of \$13.2 million to the YBITS No. 1 contract, as presented.
<p>6. EYEBAR UPDATE</p> <p>a. Update</p> <ul style="list-style-type: none"> • P. Lee reported, for TBPOC information, on the status of the eyebar work on the existing East Span. ○ Discussion items included: Design and installation of a prototype tuned mass dampening (TMD) system for the long eyebar chains (estimated 	<ul style="list-style-type: none"> • Although presented as an informational item, the TBPOC APPROVED investigation of the existing span to develop a structural condition report under Item 4a above, and declined to pursue further development of a tuned mass

(continued)

Items	Action
cost of \$400,000), forecast schedule, need for an investigation of the existing span to gain better knowledge of allowable stresses (estimated cost of \$3,000,000), and recommended course of action.	dampening (TMD) system prototype, with the Department to provide the close-out memorandum on the TMD effort.
7. ANTIOCH/ DUMBARTON BRIDGE SEISMIC RETROFIT UPDATES a. Updates <ul style="list-style-type: none">• M. Forner reported on the status of ongoing field work at the Antioch and Dumbarton Bridge Seismic Retrofit projects.○ <u>Antioch</u>: The project is going well. The bird mitigation is under control.○ <u>Dumbarton</u>: A slight delay on the job will be alleviated as soon as fabrication and partial payment work issues are resolved.	
8. OTHER BUSINESS <ul style="list-style-type: none">• N/A	

Adjourned: 3:58 PM

(continued)

TBPOC MEETING MINUTES

June 2, 2011, 1:00pm – 4:00pm

APPROVED BY:

STEVE HEMINGER, TBPOC Chair
Executive Director, Bay Area Toll Authority

Date

BIMLA G. RHINEHART, TBPOC Vice-Chair
Executive Director, California Transportation Commission

Date

MALCOLM DOUGHERTY
Acting Director, California Department of Transportation

Date

TO: Toll Bridge Program Oversight Committee (TBPOC) **DATE:** July 27, 2011

FR: Peter Lee, Senior Program Coordinator, BATA

RE: Agenda No. - 2b
Item- TBSRP 2011 Second Quarter Project Progress and Financial Update

Recommendation:
APPROVAL

Cost:
N/A

Schedule Impacts:
N/A

Discussion:

The TBSRP 2011 Second Quarter Project Progress and Financial Update is due to the legislature on August 15, 2011. The attached draft is fully updated except for current RM1 expenditures that are pending.

Program Contingency Update

The Program Contingency Balance for Q2 2011 was reduced by \$9 million to \$308 million from \$317 million in the prior quarter for TBPOC-approved budget changes on the YBITS1 contract. The Q2 2011 50% Probable Draw is \$200 million, an increase of \$36 million from the prior quarter of \$164 million. These changes result in an overall \$45 million increase in the 50% potential draw to the Program Contingency.

Cost risks on the SAS contract trended downward this quarter and the forecast for the SAS contract would have declined but for the \$15 million in scope changes/enhancements added to the CCO log after being approved by the TBPOC this quarter (e.g., "elevator to the top," "pig tail" removal).

Memorandum

In global terms, the increase in the risk draw is the result of an increase in the dismantling project's estimate associated with schedule compression and a better understanding of the costs associated with marine access costs.

Outside of the dismantling project, the decrease in cost risks this quarter were largely balanced by the increase in costs carried in the project's CCO logs.

In addition to prior cost risks identified by the risk management program, the next Risk Management Report includes a number of "Watch List" items that are potential scope changes/enhancements contemplated by the TBPOC and not yet incorporated in the draw curve, but will be if approved by the TBPOC. These items will be in Section 10 of the Risk Management Report when issued.

Attachment(s):

TBSRP 2011 Second Quarter Project Progress and Financial Update



San Francisco Bay Area Toll Bridge Seismic Retrofit and Regional Measure 1 Programs

2011 Second Quarter
Project Progress and
Financial Update

DRAFT VERSION 3.0

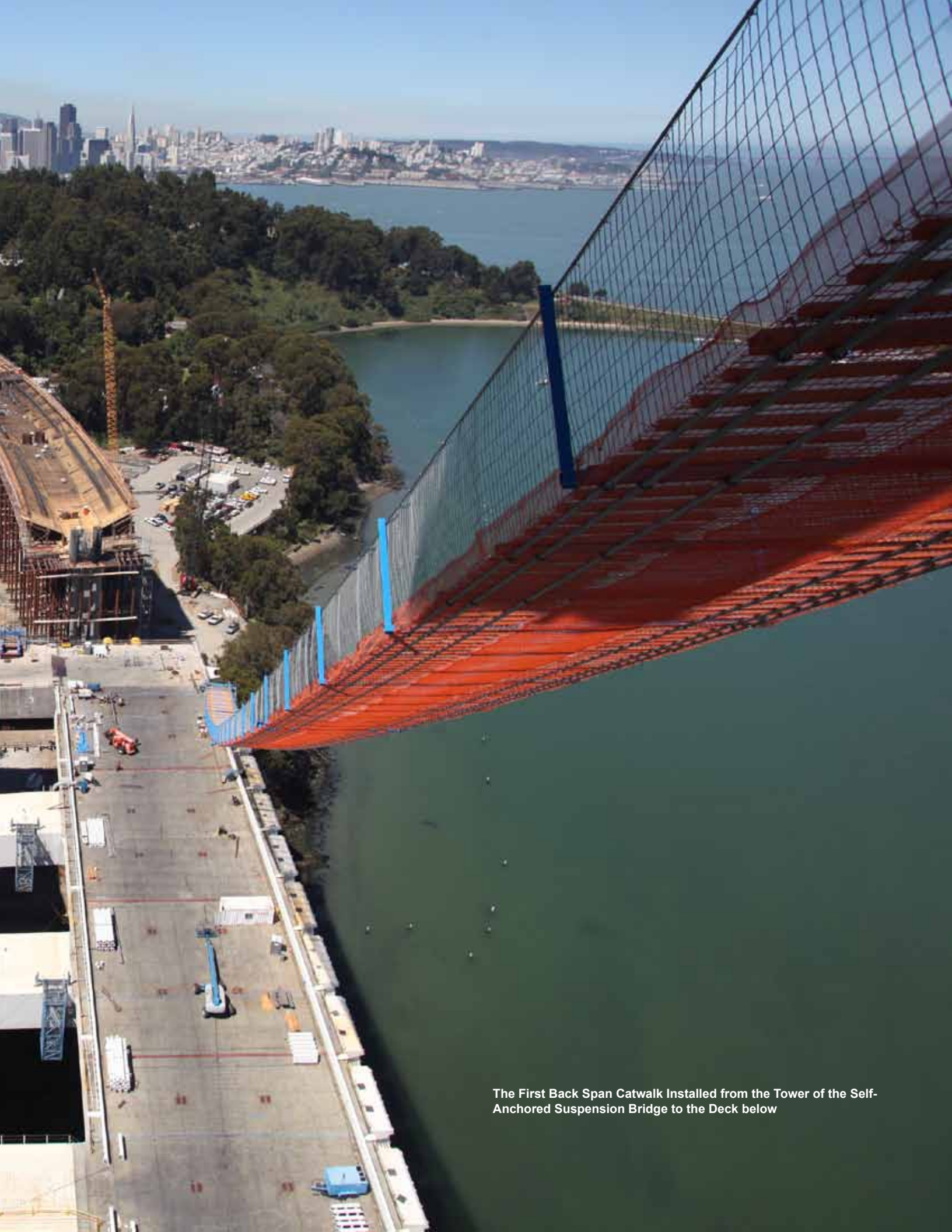


**TOLL BRIDGE PROGRAM
OVERSIGHT COMMITTEE**

CALTRANS BAY AREA TOLL AUTHORITY CALIFORNIA TRANSPORTATION COMMISSION

Released: August 2011





The First Back Span Catwalk Installed from the Tower of the Self-Anchored Suspension Bridge to the Deck below



Toll Bridge Program Oversight Committee
Department of Transportation
Office of the Director
1120 N Street
P.O. Box 942873
Sacramento, CA 94273-0001

August 12, 2011

Mr. Gregory Schmidt
Secretary of the Senate
State Capitol, Room 3044
Sacramento, CA 95814

Mr. E. Dotson Wilson
Chief Clerk of the Assembly
State Capitol, Room 3196
Sacramento, CA 95814

Dear Messrs. Schmidt and Wilson:

The Toll Bridge Program Oversight Committee (TBPOC) is pleased to submit the 2011 Second Quarter Project Progress and Financial Update for the San Francisco Bay Area Toll Bridge Seismic Retrofit and Regional Measure 1 Programs, prepared pursuant to California Streets and Highways Code Section 30952.

The TBPOC is tasked to perform project oversight and control over the Toll Bridge Seismic Retrofit Program (TBSRP) and is comprised of the Director of the Department of Transportation (Caltrans), the Executive Director of the Bay Area Toll Authority (BATA), and the Executive Director of the California Transportation Commission (CTC). This second quarter report includes project progress and activities for the Toll Bridge Seismic Retrofit Program through June 30, 2011.

Significant progress continues to be made on the San Francisco-Oakland Bay Bridge East Span Replacement Project. In late May, workers successfully hoisted the "world's largest cable saddle" atop the Self-Anchored-Suspension (SAS) span. With a flat base and curved top, the 450-ton cable saddle is engineered so that the nearly mile-long single cable can pass through the tower twice. Unlike traditional suspension bridges, the cable of an SAS bridge anchors into the roadway, rather than the ground. Starting at the bridge's eastern end, the cable will travel up and over the double saddle to the western span, then loop back over the tower to anchor into the east end again. The structural elements of the main tower are now complete with the saddle in place. Just shy of its 525-foot apex, the signature tower will be crowned with a decorative head once the cable is installed early next year.

In June, the contractor installed the 23rd and 24th steel roadway boxes that further close the gap between the completed skyway bridge and SAS. The remaining four roadway boxes are scheduled to arrive in the Bay Area in August 2011. In a sign of further progress, orange catwalks have been erected to help workers install the bridge cable safely. Two 600-foot-long catwalks are currently on the Yerba Buena Island side of the tower and will be followed by additional catwalks on the opposite side later this summer. The catwalks provide safe access for workers to install the main cable erection system

While each installed segment represents a major step forward, we continue to be mindful of the challenges that remain and of our goal to open the new bridge to traffic as soon as possible. To those ends, we are working toward a "seismic safety opening" of the bridge before the end of 2013 with contract incentives and disincentives and selective acceleration of certain critical path activities. One acceleration activity will be realignment and widening of the eastern end of the existing bridge in Oakland to allow for both eastbound and westbound directions of the new bridge to open to traffic when the SAS is ready. The eastbound realignment opened as scheduled over Memorial Day weekend without significantly impacting traffic. The westbound realignment is scheduled to open in early 2012.

Seismic retrofit work on the Dumbarton and Antioch bridges is also ongoing. On the Antioch Bridge, new seismic isolation bearings are now being installed to give the bridge more flexibility during an earthquake and new steel cross bracing is being fabricated and installed. On the Dumbarton Bridge, 48-inch diameter steel piles are being driven into the ground along the eastern approach to the bridge.

As of the end of the second quarter of 2011, the 50 percent probable draw on program contingency (see graph on page 41) is \$200 million. The potential draw ranges from about \$60 million to \$300 million. The \$308 million program contingency balance can be used to cover the costs of identified risks. In accordance with the approved TBSRP Risk Management Plan, risk mitigation actions are continuously developed and implemented to reduce the potential draw on the program contingency.

The TBPOC is committed to providing the Legislature with comprehensive and timely reporting on the TBSRP. If there are any questions, or if any additional information is required, please do not hesitate to contact the members of the TBPOC.

Sincerely,

STEVE HEMINGER
TBPOC Chair
Executive Director
Bay Area Toll Authority

BIMLA G. RHINEHART
TBPOC Vice-Chair
Executive Director
California Transportation Commission

MALCOLM DOUGHERTY
Acting Director
California Department of Transportation



Toll Bridge Program Oversight Committee
Department of Transportation
Office of the Director
1120 N Street
P.O. Box 942873
Sacramento, CA 94273-0001

August 12, 2011

Mr. Dario Frommer, Chair
California Transportation Commission
1120 N Street, Room 2221
Sacramento, CA 95814

Mr. James C. Ghielmetti, Vice-Chair
California Transportation Commission
1120 N Street, Room 2221
Sacramento, CA 95814

Dear Messrs. Frommer and Ghielmetti:

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The TBPOC is committed to providing the Legislature with comprehensive and timely reporting on the TBSRP. If there are any questions, or if any additional information is required, please do not hesitate to contact the members of the TBPOC.

Sincerely,

STEVE HEMINGER
TBPOC Chair
Executive Director
Bay Area Toll Authority

BIMLA G. RHINEHART
TBPOC Vice-Chair
Executive Director
California Transportation Commission

MALCOLM DOUGHERTY
Acting Director
California Department of Transportation

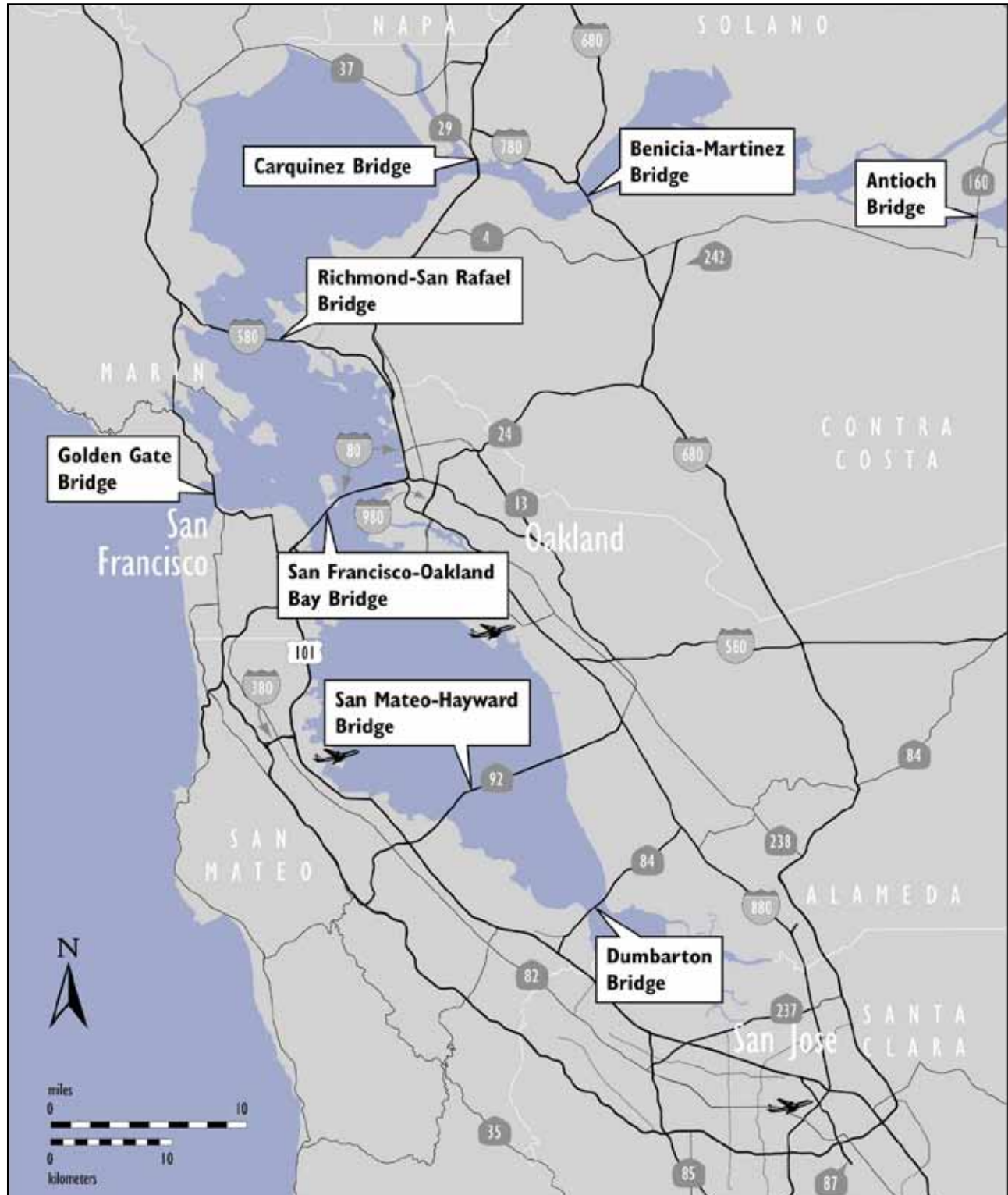


A 4,000 Ton Crane Loads Roadway Box 14 West
onboard Ship - The Last Steel Deck Voyage

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Map of Bay Area Toll Bridges



* The Golden Gate Bridge is owned and operated by the Golden Gate Bridge, Highway, and Transportation District.

Introduction

In July 2005, Assembly Bill (AB) 144 (Hancock) created the Toll Bridge Program Oversight Committee (TBPOC) to implement a project oversight and project control process for the new Benicia-Martinez Bridge and State Toll Bridge Seismic Retrofit Program projects. The TBPOC consists of the Director of Caltrans, the Executive Director of the Bay Area Toll Authority (BATA) and the Executive Director of the California Transportation Commission (CTC). The TBPOC's project oversight and control processes include, but are not limited to, reviewing bid specifications and documents, reviewing and approving significant change orders and claims in excess of \$1 million (as defined by the Committee), and keeping the Legislature and others apprised of current project progress and status. In January 2010, Assembly Bill (AB) 1175 (Torlakson) amended the TBSRP to include the Antioch and Dumbarton Bridges seismic retrofit projects. The current Toll Bridge Seismic Retrofit Program is as follows:

Toll Bridge Seismic Retrofit Projects	Seismic Safety Status
Dumbarton Bridge Seismic Retrofit	Construction
Antioch Bridge Seismic Retrofit	Construction
San Francisco-Oakland Bay Bridge East Span Replacement	Construction
San Francisco-Oakland Bay Bridge West Approach Replacement	Complete
San Francisco-Oakland Bay Bridge West Span Seismic Retrofit	Complete
San Mateo-Hayward Bridge Seismic Retrofit	Complete
Richmond-San Rafael Bridge Seismic Retrofit	Complete
1958 Carquinez Bridge Seismic Retrofit	Complete
1962 Benicia-Martinez Bridge Seismic Retrofit	Complete
San Diego-Coronado Bridge Seismic Retrofit	Complete
Vincent Thomas Bridge Seismic Retrofit	Complete

The New Benicia-Martinez Bridge is part of a larger program of toll-funded projects called the Regional Measure 1 (RM1) Toll Bridge Program under the responsibility of BATA and Caltrans. While the rest of the projects in the RM1 program are not directly under the responsibility of the TBPOC, BATA and Caltrans will continue to report on their progress as an informational item. The RM1 program includes:

Regional Measure 1 Projects	Open to Traffic Status
Interstate 880/State Route 92 Interchange Reconstruction	Construction
1962 Benicia-Martinez Bridge Reconstruction	Open
New Benicia-Martinez Bridge	Open
Richmond-San Rafael Bridge Deck Overlay Rehabilitation	Open
Richmond-San Rafael Bridge Trestle, Fender & Deck Joint Rehabilitation	Open
Westbound Carquinez Bridge Replacement	Open
San Mateo-Hayward Bridge Widening	Open
State Route 84 Bayfront Expressway Widening	Open
Richmond Parkway	Open

SUMMARY OF MAJOR PROJECT HIGHLIGHTS, ISSUES, AND ACTIONS



View of the SAS Back Span Catwalk Installed



Bike Path Installed on the Eastbound Self-Anchored Suspension Bridge



Roadway Box 12 West Being Lifted by the Shear-Leg Crane Barge

Toll Bridge Seismic Retrofit Program Risk Management

A major element of the 2005 AB144, the law creating the TBPOC, was legislative direction to implement a more aggressive risk management program. Such a program has been implemented in stages over time to ensure development of a robust and comprehensive approach to risk management.

A comprehensive risk assessment is performed for each project in the program on a quarterly basis. Based upon those assessments, a forecast is developed using the average cost of risk. These forecasts can both increase and decrease as risks are identified, resolved or retired. Nonetheless, assurances have been made that the public is informed of the risks that have been identified and the possible expense they could necessitate.

As of the end of the second quarter of 2011, the 50 percent probable draw on program contingency (see graph on page 41) is \$200 million. The potential draw ranges from about \$60 million to \$300 million. The \$308 million program contingency balance can be used to cover the costs of identified risks. In accordance with the approved TBSRP Risk Management Plan, risk mitigation actions are continuously developed and implemented to reduce the potential draw on the program contingency.

San Francisco-Oakland Bay Bridge (SFOBB) East Span Seismic Replacement Project SAS Superstructure Contract

The prime contractor constructing the Self-Anchored Suspension (SAS) Bridge from the completed Skyway to Yerba Buena Island is a joint venture of American Bridge/Fluor (ABF). Significant progress is being made both in the Bay Area and around the world.

As of the end of June 2011, workers successfully hoisted the “world’s largest cable saddle” atop the Self-Anchored-Suspension (SAS) span’s tower. The structural elements of the main tower are now complete with the saddle in place. Just shy of its 525-foot apex, the signature tower will be crowned with a decorative head once the cable is installed early next year.

The first 24 of 28 steel roadway boxes were installed as of the end of June 2011. The remaining four roadway boxes are in fabrication and are expected

to ship in July 2011 and arrive in Oakland in mid-August 2011.

These boxes, fabricated in Shanghai, China, join other bridge components that have been arriving from around the country and the world. All bridge components undergo a rigorous quality review by the fabricator, ABF, and Caltrans to ensure that only bridge components that have been built in accordance to the specifications will be shipped. The TBPOC's goal is to open the bridge to traffic in both directions by December 2013.

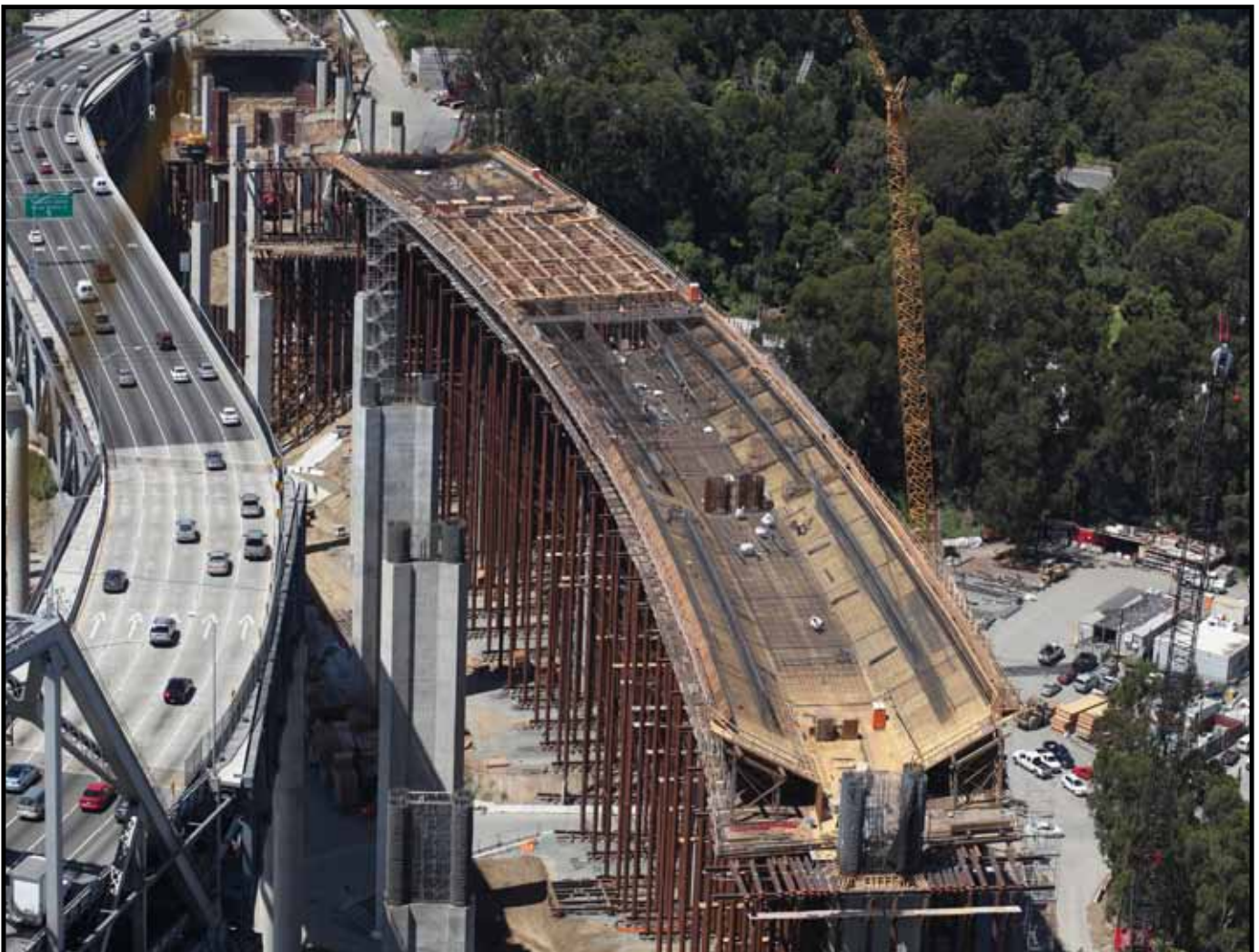
Yerba Buena Island Detour Contract

The YBI temporary detour structure contract was completed in October 2010.

Yerba Buena Island Transition Structures #1 Contract

The YBITS#1 contract has been awarded to MCM Construction, Inc., the same contractor that completed the Oakland Touchdown (OTD) #1 contract. MCM mobilized in September 2010, and has had total access to the area since October 1, 2010. The MCM contract includes completing the remaining foundations and the bridge deck structure from the Yerba Buena Island Tunnel to the self-anchored suspension bridge.

Work is focused on the westbound transition structure's substructure and superstructure from the tunnel to the self-anchored suspension bridge (SAS) as shown in the picture below. The first pour on the westbound superstructure is scheduled in late July 2011.



Aerial View of YBITS #1 Westbound Falsework, Formwork and Rebar Installation in Progress and the Yerba Buena Island Detour Structure

SUMMARY OF MAJOR PROJECT HIGHLIGHTS, ISSUES, AND ACTIONS



Oakland Detour - Work in Progress

Oakland Touchdown #1 Contract

The Oakland Touchdown (OTD) #1 contractor, MCM Construction completed the work on June 8, 2010. The contract constructed the westbound approach from the toll plaza to the Skyway structure and the portion of the eastbound approach that is not in conflict with the existing bridge structure.

Oakland Detour

The detour realigns the bridge approach to the south to allow for construction of the remaining portion of OTD #2 that was in conflict with the existing bridge. The eastbound detour was completed on May 30, 2011. The westbound detour is forecast to open at the beginning of spring 2012.



Oakland Detour - Relocated Eastbound Temporary Detour

Oakland Touchdown #2 Contract

The OTD #2 contract for construction will be advertised in October 2011 and awarded in April 2012.

Antioch Bridge Seismic Retrofit

The major retrofit strategy for the bridge includes installing seismic isolation bearings at each of the 41 piers, strengthening piers 12 through 31 with steel cross-bracing between column bents and installing steel casings at all columns located at the Sherman Island approach slab bridge. See project progress on page 34.

Dumbarton Bridge Seismic Retrofit

The Dumbarton bridge is a combination of three bridge types; reinforced concrete slab approaches supported on multiple pile extension columns, precast - prestressed concrete girders, and steel box girders supported on reinforced concrete piers. The retrofit strategy for the bridge includes superstructure and deck modifications and installation of isolation bearings. See project progress on page 36.



Dumbarton Bridge - Roughening Face of Existing Bent Cap



Antioch Bridge - Cross Frames Installed between Bent Columns



Aerial View of the Dumbarton Bridge



92/880 NWCONN Bridge Construction

TBSRP Capital Outlay Support

The capital outlay support (COS) budget, originally established as a part of AB 144 in 2005, was based on a schedule that assumed bridge opening in 2012. After the SAS contract was rebid, interested contractors requested an additional year to be added to the schedule. To ensure a competitive bidding pool, the TBPOC changed the approved schedule to reflect bridge opening in 2013, but delayed increasing the COS budget to cover the project extension with the belief that an accelerated early completion was still possible and that COS costs could be contained. Since that time, early completion has not materialized and the TBPOC has subsequently approved COS budget increases to be funded from the COS reserves set aside within the original program contingency for project extensions or delays. Opportunities to economize and reduce costs in this area will continue to be pursued. However, additional COS is forecast to be needed from the program contingency.

TBSRP Programmatic Risks

This category includes risks that are not yet scoped within existing contracts and/or that spread across multiple contracts. The interdependencies between all of the contracts in the program result in the potential for one contract's delay to impact the entire program that are accounted for in the net programmatic risks.

Regional Measure 1 Toll Bridge Program (RM1)

Interstate 880/State Route 92 Interchange Reconstruction Project

The project is forecast to be substantially completed in September 2011 pending weather or unforeseen construction delays. Caltrans is scheduled to open the westbound 92 to 880 in July 2011.

Toll Bridge Seismic Retrofit Program Cost Summary

	Contract Status	AB 144/SB 66 Budget (July 2005)	TBPOC Approved Changes	Current TBPOC Approved Budget (June 2011)	Cost to Date (June 2011)	Current Cost Forecast (June 2011)	Cost Variance	Cost Status
		a	b	c = a + b	d	e	f = e - c	
SFOBB East Span Seismic Replacement								
Capital Outlay Construction								
Skyway	Completed	1,293.0	(38.9)	1,254.1	1,237.1	1,245.2	(8.9)	●
SAS Marine Foundations	Completed	313.5	(32.6)	280.9	274.8	278.6	(2.3)	●
SAS Superstructure	Construction	1,753.7	293.1	2,046.8	1,530.8	2,078.9	32.1	●
YBI Detour	Completed	131.9	360.9	492.8	465.8	482.8	(10.0)	●
YBI Transition Structures (YBITS)		299.3	(51.5)	247.8	43.0	305.1	57.3	●
YBITS 1	Construction			185.5	43.0	222.4	36.9	●
YBITS 2	Design			59.0	-	79.4	20.4	●
YBITS Landscaping	Design			3.3	-	3.3	-	●
Oakland Touchdown (OTD)		283.8	55.2	339.0	209.4	333.9	(5.1)	●
OTD 1	Completed			212.0	202.9	203.3	(8.7)	●
OTD 2	Design			62.0	-	58.6	(3.4)	●
Detour	Construction			51.0	-	58.0	7.0	●
OTD Electrical Systems	Design			4.4	-	4.4	-	●
Submerged Electric Cable	Completed			9.6	6.5	9.6	-	●
Existing Bridge Demolition	Design	239.2	(0.1)	239.1	-	250.8	11.7	●
Stormwater Treatment Measures	Completed	15.0	3.3	18.3	16.8	18.3	-	●
Other Completed Contracts	Completed	90.4	-	90.4	89.9	90.4	-	●
Capital Outlay Support		959.3	218.0	1,177.3	965.5	1,275.8	98.5	●
Right-of-Way and Environmental Mitigation		72.4	-	72.4	51.7	80.4	8.0	●
Other Budgeted Capital		35.1	(3.3)	31.8	0.7	7.7	(24.1)	●
Total SFOBB East Span Replacement		5,486.6	804.1	6,290.7	4,885.5	6,447.9	157.2	
Antioch Bridge Seismic Retrofit								
Capital Outlay Construction and Mitigation	Construction		70.0	70.0	25.6	56.9	(13.1)	●
Capital Outlay Support			31.0	31.0	19.8	34.7	3.7	●
Total Antioch Bridge Seismic Retrofit		-	101.0	101.0	45.4	91.6	(9.4)	
Dumbarton Bridge Seismic Retrofit								
Capital Outlay Construction and Mitigation	Construction		92.7	92.7	13.2	88.8	(3.9)	●
Capital Outlay Support			56.0	56.0	27.0	57.2	1.2	●
Total Dumbarton Bridge Seismic Retrofit		-	148.7	148.7	40.2	146.0	(2.7)	
Other Program Projects		2,268.4	(64.6)	2,203.8	2,160.9	2,191.7	(12.1)	●
Miscellaneous Program Costs		30.0	-	30.0	25.5	30.0	-	●
Net Programmatic Risks		-	-	-	-	66.9	66.9	●
Program Contingency		900.0	(592.2)	307.8	-	107.9	(199.9)	●
Total Toll Bridge Seismic Retrofit Program²		8,685.0	397.0	9,082.0	7,157.5	9,082.0	-	

- Within approved schedule and budget
 - Identified potential project risks that could significantly impact approved schedules and budgets if not mitigated
 - Known project impacts with forthcoming changes to approved schedules and budgets
- ² Figures may not sum up to totals due to rounding effects.

Toll Bridge Seismic Retrofit Program Schedule Summary

	AB144/SB 66 Project Completion Schedule Baseline (July 2005)	TBPOC Approved Changes (Months)	Current TBPOC Approved Completion Schedule (June 2011)	Current Completion Forecast (June 2011)	Schedule Variance (Months)	Schedule Status	Remarks/Notes
	g	h	i = g + h	j	k = j - i	l	
SFOBB East Span Seismic Replacement							
Contract Completion							
Skyway	Apr 2007	8	Dec 2007	Dec 2007	-	●	See Page 30
SAS Marine Foundations	Jun 2008	(5)	Jan 2008	Jan 2008	-	●	See Page 18
SAS Superstructure	Mar 2012	29	Aug 2014	Aug 2014	-	●	See Page 19
YBI Detour	Jul 2007	41	Dec 2010	Oct 2010	(2)	●	See Page 15
YBI Transition Structures (YBITS)	Nov 2013	12	Nov 2014	Mar 2015	4		See Page 16
YBITS 1			Sep 2013	Dec 2013	3	●	
YBITS 2			Nov 2014	Mar 2015	4	●	
YBITS Landscaping			TBD	TBD	-	●	
Oakland Touchdown	Nov 2013	12	Nov 2014	Nov 2014	-		See Page 31
OTD 1			Jun 2010	Jun 2010	-	●	
OTD 2			Nov 2014	Nov 2014	-	●	
OTD Electrical Systems			TBD	TBD	-	●	
Submerged Electric Cable			Jan 2008	Jan 2008	-	●	
Existing Bridge Demolition	Sep 2014	12	Sep 2015	Dec 2015	3	●	
Stormwater Treatment Measures	Mar 2008		Mar 2008	Mar 2008	-	●	
SFOBB East Span Bridge Opening and Other Milestones							
Westbound Seismic Safety Open	Sep 2011	27	Dec 2013	Dec 2013	-	●	
Eastbound Seismic Safety Open	Sep 2012	15	Dec 2013	Dec 2013	-		
Oakland Detour Eastbound Open			May 2011	May 2011	-	●	
Oakland Detour Westbound Open			Feb 2012	Feb 2012	-	●	
OTD Westbound Access			Aug 2009	Aug 2009	-	●	
YBI Detour Open			Sep 2009	Sep 2009	-	●	See Page 15
Antioch Bridge Seismic Retrofit							
Contract Completion			Aug 2012	May 2012	(3)	●	See Page 34
Dumbarton Bridge Seismic Retrofit							
Contract Completion			Sep 2013	Sep 2013	-	●	See Page 36

Regional Measure 1 Program Cost Summary

	Contract Status	BATA Baseline Budget (July 2005)	BATA Approved Changes	Current BATA Approved Budget (June 2011)	Cost to Date (May 2011)	Current Cost Forecast (June 2011)	Cost Variance	Cost Status
		a	b	c = a + b	d	e	f = e - c	
Interstate 880/Route 92 Interchange Reconstruction								
Capital Outlay Construction	Construction	94.8	68.4	163.2	130.7	163.2	-	●
Capital Outlay Support		28.8	35.8	64.6	59.2	64.6	-	●
Capital Outlay Right-of-Way		9.9	7.3	17.2	14.5	17.2	-	●
Project Reserve		0.3	(0.3)	-	-	-	-	
Total I-880/SR-92 Interchange Reconstruction		133.8	111.2	245.0	204.4	245.0	-	
Other Completed Program Projects		1,978.8	182.6	2,161.4	2,088.1	2,161.4	-	
Total Regional Measure 1 Toll Bridge Program¹		2,112.6	293.8	2,406.4	2,292.5	2,406.4	-	

- Within approved schedule and budget
 - Identified potential project risks that could significantly impact approved schedules and budgets if not mitigated
 - Known project impacts with forthcoming changes to approved schedules and budgets
- ¹ Figures may not sum up to totals due to rounding effects.

Regional Measure 1 Program Schedule Summary

	BATA Baseline Completion Schedule (July 2005)	BATA Approved Changes (Months)	Current BATA Approved Completion Schedule (June 2011)	Current Completion Forecast (June 2011 2011)	Schedule Variance (Months)	Schedule Status	Remarks/Notes
	g	h	i = g + h	j	k = j - i	l	
Interstate 880/Route 92 Interchange Reconstruction							
Contract Completion							
Interchange Reconstruction	Dec 2010	9	Sep 2011	Sep 2011	-	●	See Page 50





The Gap between the Self-Anchored Suspension Bridge Box 12
East and West and the Skyway

TOLL BRIDGE SEISMIC RETROFIT PROGRAM

TOLL BRIDGE SEISMIC RETROFIT PROGRAM

San Francisco-Oakland Bay Bridge Seismic Retrofit Strategy

When a 250-ton section of the upper deck of the East Span collapsed during the 7.1-magnitude Loma Prieta Earthquake in 1989, it was a wake-up call for the entire Bay Area. While the East Span quickly reopened within a month, a critical question lingered: How could the Bay Bridge—a vital regional lifeline structure—be strengthened to withstand the next major earthquake? Seismic experts from around the world determined that to make each separate element seismically safe on a bridge of this size, the work must be divided into numerous projects. Each project presents unique challenges. Yet there is one common challenge — the need to accommodate the more than 280,000 vehicles that cross the bridge each day.



West Approach Overview

West Approach Seismic Replacement Project

Project Status: Completed 2009

Seismic safety retrofit work on the West Approach in San Francisco, bounded on the west by 5th Street and on the east by the anchorage of the west span at Beale Street, involved completely removing and replacing this one-mile stretch of Interstate 80, as well as six on- and off-ramps within the confines of the West Approach's original footprint. This project was completed on April 8, 2009.

West Span Seismic Retrofit Project

Project Status: Completed 2004

The West Span lies between Yerba Buena Island and San Francisco and is made up of two complete suspension spans connected at a center anchorage. Retrofit work included adding massive amounts of steel and concrete to strengthen the entire West Span, along with new seismic shock absorbers and bracing.



San Francisco-Oakland Bay Bridge West Span



East Span Seismic Replacement Project

Project Status: **In Construction**

Rather than a seismic retrofit, the two-mile long East Span is being completely rebuilt. When completed, the new East Span will consist of several different sections, but will appear as a single streamlined span. The eastbound and westbound lanes of the East Span will no longer include upper and lower decks. The lanes will instead be parallel, providing motorists with expansive views of the bay. These views will also be enjoyed by bicyclists and pedestrians, thanks to a new bike path on the south side of the bridge that will extend all the way to Yerba Buena Island. The new span will be aligned north of the existing bridge to allow traffic to continue to flow on the existing bridge as crews build the new span.

The new span will feature the world's longest Self-Anchored Suspension (SAS) bridge that will be connected to an elegant roadway supported by piers (Skyway), which will gradually slope down toward the Oakland shoreline (Oakland Touchdown). A new transition structure on Yerba Buena Island (YBI) will connect the SAS to the YBI Tunnel and will transition the East Span's side-by-side traffic to the upper and lower decks of the tunnel and West Span.

When construction of the new East Span has been completed and vehicles have been safely rerouted to it, the original East Span will be demolished.



Architectural Rendering of the New East Span of the San Francisco-Oakland Bay Bridge



TOLL BRIDGE SEISMIC RETROFIT PROGRAM

San Francisco-Oakland Bay Bridge East Span Replacement Project Summary

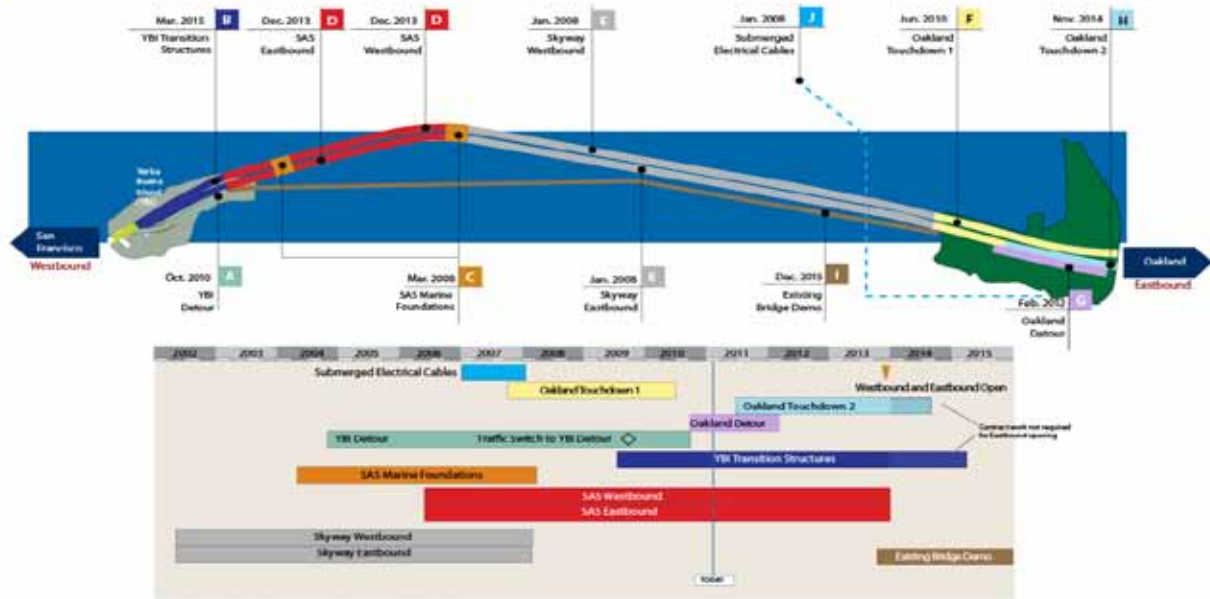
The new East Span bridge can be split into four major components—the Skyway and the Self-Anchored Suspension bridge in the middle and the Yerba Buena Island Transition Structures and Oakland Touchdown approaches at either end. Each component is being constructed by one to three separate contracts that have been sequenced together to reduce schedule risk.

Highlighted below are the major East Span contracts and their schedules. The letter designation before each contract corresponds to contract descriptions in the report.



Overview of the San Francisco-Oakland Bay Bridge East Span Construction Progress

SFOBB East Span Work Sequence



TOLL BRIDGE SEISMIC RETROFIT PROGRAM

San Francisco-Oakland Bay Bridge East Span Replacement Project Yerba Buena Island Detour (YBID)

As with all of the Bay Bridge's seismic retrofit projects, crews must build the Yerba Buena Island Transition Structures (YBITS) without disrupting traffic. To accomplish this task, YBID eastbound and westbound traffic was shifted off the existing roadway and onto a temporary detour on Labor Day weekend 2009. Drivers will use this detour, just south of the original roadway, until traffic is moved onto the new East Span.

A YBID Contract

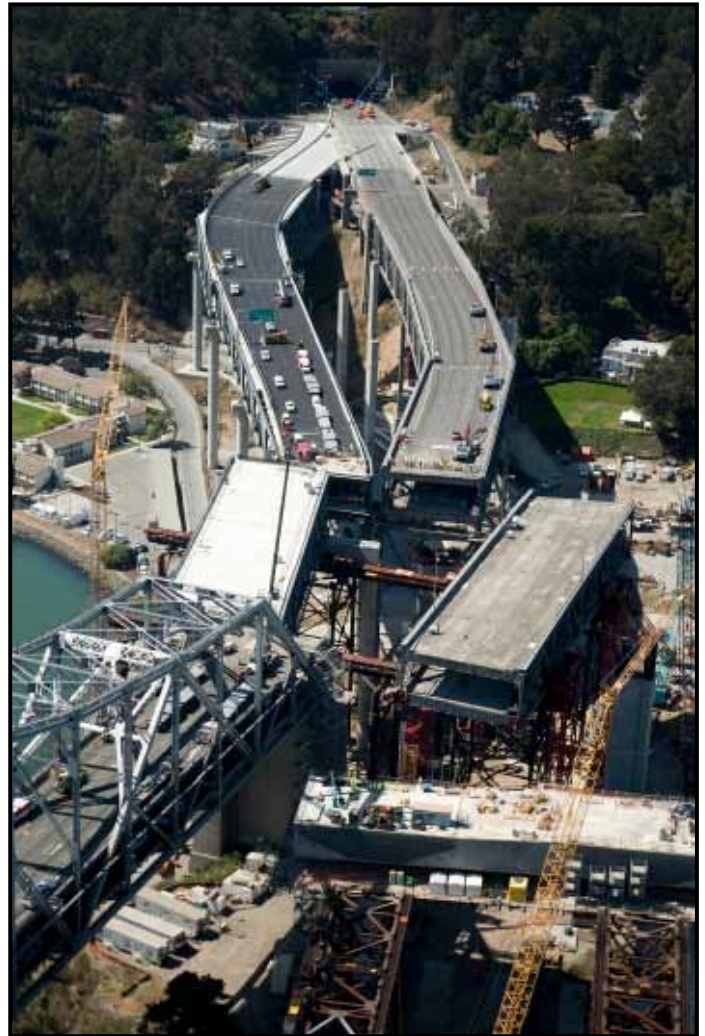
Contractor: C.C. Myers, Inc.

Approved Capital Outlay Budget: \$492.8 M

Status: Completed October 2010

This contract was originally awarded in early 2004 to construct the detour structure for the planned 2006 opening of the new East Span. Due to the re-advertisement of the SAS Superstructure contract in 2005 because of a lack of funding at the time, the bridge opening was rescheduled to 2013. To better integrate the contract into the current East Span schedule and to improve seismic safety and mitigate future construction risks, the TBPOC has approved a number of changes to the contract, including adding the deck replacement work near the tunnel that was rolled into place over Labor Day weekend 2007, advancing future transition structure foundation work and making design enhancements to the temporary detour structure. These changes have increased the budget and forecast for the contract to cover the revised project scope and reduce project risks.

Status: Completed.



YBI East Tie-In Rolled in on Labor Day 2009 Weekend



West Tie-In Phase #1 Rolled in on Labor Day Weekend 2007

TOLL BRIDGE SEISMIC RETROFIT PROGRAM

San Francisco-Oakland Bay Bridge East Span Replacement Project Yerba Buena Island Transition Structures (YBITS)

The new Yerba Buena Island Transition Structures (YBITS) will connect the new SAS bridge span to the existing Yerba Buena Island Tunnel, transitioning the new side-by-side roadway decks to the upper and lower decks of the tunnel. The new structures will be cast-in-place reinforced concrete structures that will look very similar to the already constructed Skyway structures. While some YBITS foundations and columns have been advanced by the YBID contract, the remaining work will be completed under three separate YBITS contracts.

B YBITS #1 Contract

Contractor: MCM Construction, Inc.

Approved Capital Outlay Budget: \$185.5 M

Status: 24% Complete as of June 2011



YBITS #1 Westbound Frame 2 Falsework, Formwork and Rebar Installation

The YBITS #1 contract will construct the mainline roadway structure from the SAS bridge to the YBI tunnel. On February 4, 2010, Caltrans awarded the YBITS #1 Contract to MCM Construction, Inc.

Status: Construction of the eastbound and westbound footings and columns were completed in June 2001. Work continues on frames 1 and 2 westbound formwork and rebar installation. The first concrete placement is scheduled for July 22, 2011.



Rendering of Overview of Future Yerba Buena Island Transition Structures in Progress (top) with Completed Detour Viaduct (bottom)



YBITS #2 Contract

Contractor: TBD

Approved Capital Outlay Budget: \$59.0 M

Status: **In Design**

The YBITS #2 contract will demolish the detour viaduct after all traffic is shifted to the new bridge and will construct a new eastbound on-ramp to the bridge in its place. The new ramp will also provide the final link for bicycle/pedestrian access off the SAS bridge onto Yerba Buena Island.

YBITS Landscaping Contract

Contractor: TBD

Approved Capital Outlay Budget \$3.3M

Status: **In Design**

Upon completion of the YBITS work, a follow-on landscaping contract will be executed to replant and landscape the area.

Yerba Buena Island Transition Structures Advanced Work

Due to the re-advertisement of the SAS superstructure contract in 2005, it became necessary to temporarily suspend the detour contract and make design changes to the viaduct. To make more effective use of the extended contract duration and to reduce overall project schedule and construction risks, the TBPOC approved the advancement of foundation and column work from the Yerba Buena Island Transition Structures contract.

Status: The YBID contractor completed the YBITS advanced substructure work in October 2010.



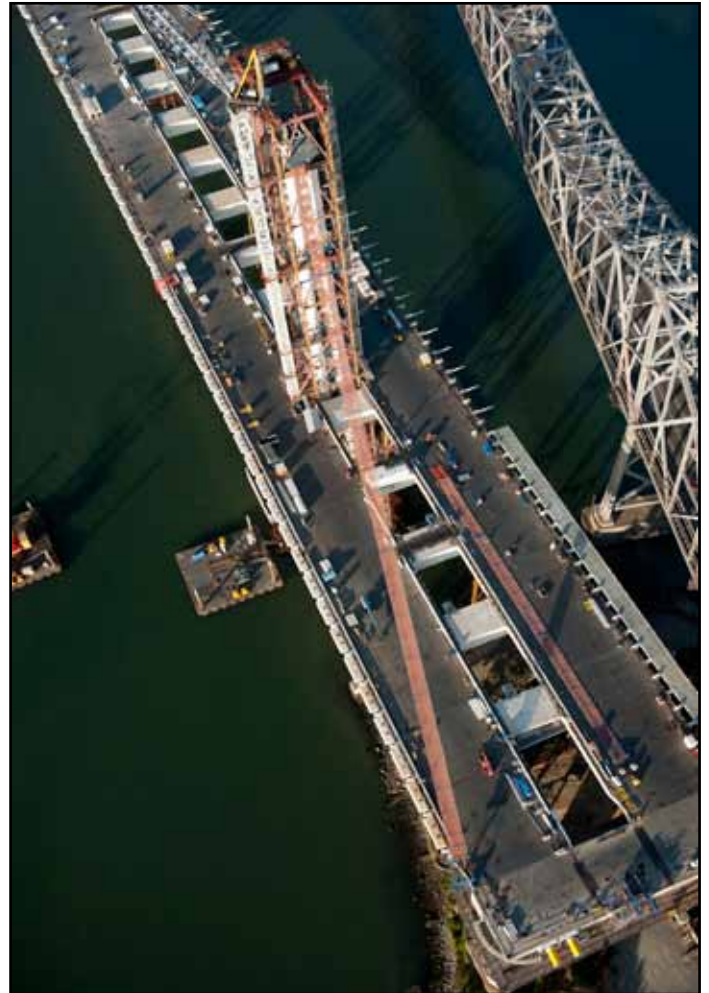
Yerba Buena Island Transition Structures #1 Westbound Falsework, Formwork and Rebar Installation in Progress

TOLL BRIDGE SEISMIC RETROFIT PROGRAM

San Francisco-Oakland Bay Bridge East Span Replacement Project Self-Anchored Suspension (SAS) Bridge

If one single element bestows world class status on the new Bay Bridge East Span, it is the Self-Anchored Suspension (SAS) bridge. This engineering marvel will be the world's largest SAS span at 2,047 feet in length, as well as the first bridge of its kind built with a single tower.

The SAS was separated into three separate contracts— construction of the land-based foundations and columns at pier W2; construction of the marine-based foundations and columns at piers T1 and E2; and construction of the SAS steel superstructure, including the tower, roadway, and cabling. Construction of the foundations at pier W2 and at piers T1 and E2 was completed in 2004 and 2007, respectively.



Aerial View of the Self-Anchored Suspension Bridge, the Tower and Back Span Catwalk Installed

SAS Land Foundation Contract

Contractor: West Bay Builders, Inc.
Approved Capital Outlay Budget: \$26.4 M
Status: Completed October 2004

The twin W2 columns on Yerba Buena Island provide essential support for the western end of the SAS bridge, where the single main cable for the suspension span will extend down from the tower and wrap around and under the western end of the roadway deck. Each of these huge columns required massive amounts of concrete and steel and are anchored 80 feet into the island's solid bedrock.

C SAS Marine Foundations Contract

Contractor: Kiewit/FCI/Manson, Joint Venture
Approved Capital Outlay Budget: \$280.9 M
Status: Completed January 2008

Construction of the piers at E2 and T1 required significant on-water resources to drive the foundation support piles down, not only to bedrock, but also through the bay water and mud (see rendering on facing page).

The T1 foundation piles extend 196 feet below the waterline and are anchored into bedrock with heavily reinforced concrete rock sockets that are drilled into the rock. Driven nearly 340 feet deep, the steel and concrete E2 foundation piles were driven 100 feet deeper than the deepest timber piles of the existing east span in order to get through the bay mud and reach solid bedrock.



D SAS Superstructure Contract

Contractor: American Bridge/Fluor Enterprises, Joint Venture

Approved Capital Outlay Budget: \$2.05 B

Status: **73% Complete as of June 2011**

The SAS bridge is not just another suspension bridge. Rising 525 feet above mean sea level and embedded in rock, the single-tower SAS span is designed to withstand a massive earthquake. Traditional main cable suspension bridges have twin cables with smaller suspender cables connected to them. While there will appear to be two main cables on the SAS, there will actually only be one. This single cable will be anchored within the eastern end of the roadway, carried over the tower and then wrapped around the two side-by-side decks at the western end. The single-steel tower will be made up of four separate legs connected by shear link beams which function

much like a fuse in an electrical circuit. These beams will absorb most of the impact from an earthquake, preventing damage to the tower legs.

The next several pages highlight the construction sequence of the SAS and are followed by detailed updates on specific construction activities.



Architectural Rendering of New Self-Anchored Suspension Span and Skyway



Yerba Buena Island Transition

SAS

Skyway

Oakland Touchdown

TOLL BRIDGE SEISMIC RETROFIT PROGRAM

Self-Anchored Suspension (SAS) Construction Sequence

STEP 1 - CONSTRUCT TEMPORARY SUPPORT STRUCTURES

Temporary support structures will need to be erected from the Skyway to Yerba Buena Island to support the new SAS bridge during construction.

Status: Foundations and temporary support structures were completed in mid-September 2010.



Step 1

STEP 2 - INSTALL ROADWAYS

The roadway boxes are being lifted into place by using the shear-leg crane barge. The boxes are being bolted and welded together atop the temporary support trusses to form two continuous parallel steel roadway boxes.

Status: Twenty-four of 28 roadway boxes have been erected. Seventeen crossbeams have been installed between the roadway boxes. Roadway boxes 13 and 14 east and west are in fabrication and are expected to ship in July 2011. The bike path service platform and barrier installation continues on eastbound and westbound roadway decks.



Step 2

STEP 3 - INSTALL TOWER

Each of the four legs of the tower will be erected in four separate lifts. The four tower lifts, the grillage and the tower head will be installed using a temporary erection tower and lifting jacks.

Status: The tower lifts and saddle have been installed and the tie-back foundation is complete. The tower head will be erected after the cables have been installed in early 2012.



Step 3



STEP 4 - MAIN CABLE AND SUSPENDER INSTALLATION

The main cable will be pulled from the east end of the SAS bridge, over the tower, and wrapped around pier W2 and again back over the tower and to the east end of the SAS bridge deck. Suspender cables will be added to lift the roadway decks off the temporary support structure.

Status: Cable installation is pending the erection of the cable temporary work and completion of roadway spans. All cables have been fabricated, shipped and stored in the warehouse at Pier 7 in Oakland. The backspan catwalk installation was completed in June and preparation for installation of the main span catwalk is in progress. Suspender bracket installation continues.

STEP 5 - WESTBOUND AND EASTBOUND SEISMIC SAFETY OPENING

The new bridge will now open simultaneously in both the westbound and eastbound directions.

Status: The westbound and eastbound opening is forecast for December 2013.



Step 4



Step 5



Aerial View of Current Progress on the Self-Anchored Suspension Bridge

Self-Anchored Suspension (SAS) Superstructure Fabrication Activities

Roadway and Tower Segments

Like giant three-dimensional jigsaw puzzles, the roadway and tower lifts of the SAS bridge are hollow steel shells that are internally strengthened and stiffened by a highly engineered network of welded steel ribs and diaphragms. The use of steel in this manner allows for a strong and yet relatively light and flexible structure to withstand the massive loads placed on the bridge during seismic events.

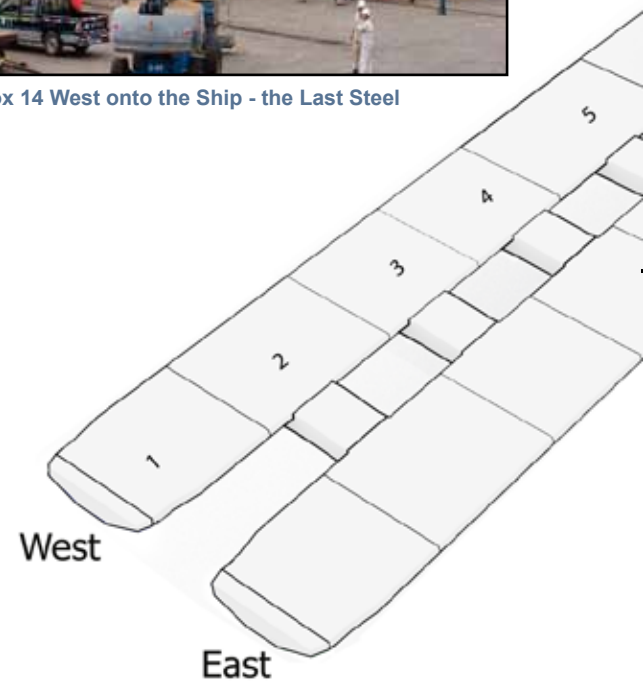
All components undergo a rigorous quality review by ZPMC, ABF, and Caltrans to ensure that only bridge components that have been built according to contract specifications will be shipped.

Roadway Box Fabrication Status: As shown in the diagram to the right, roadway boxes 1 through 12 east and west have been installed. Fabrication of roadway boxes 13 and 14 east and west is ongoing. The roadway boxes are forecast to be shipped in late July 2011.

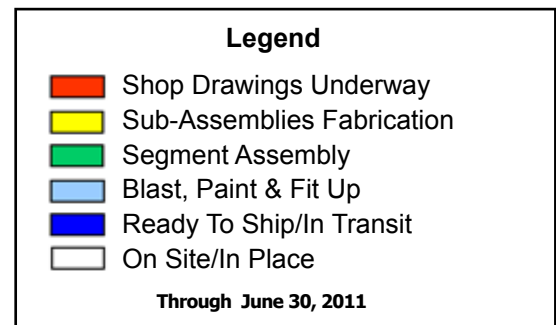
Tower Fabrication Status: Completed and shipped.



Loading Roadway Box 14 West onto the Ship - the Last Steel Segment Voyage

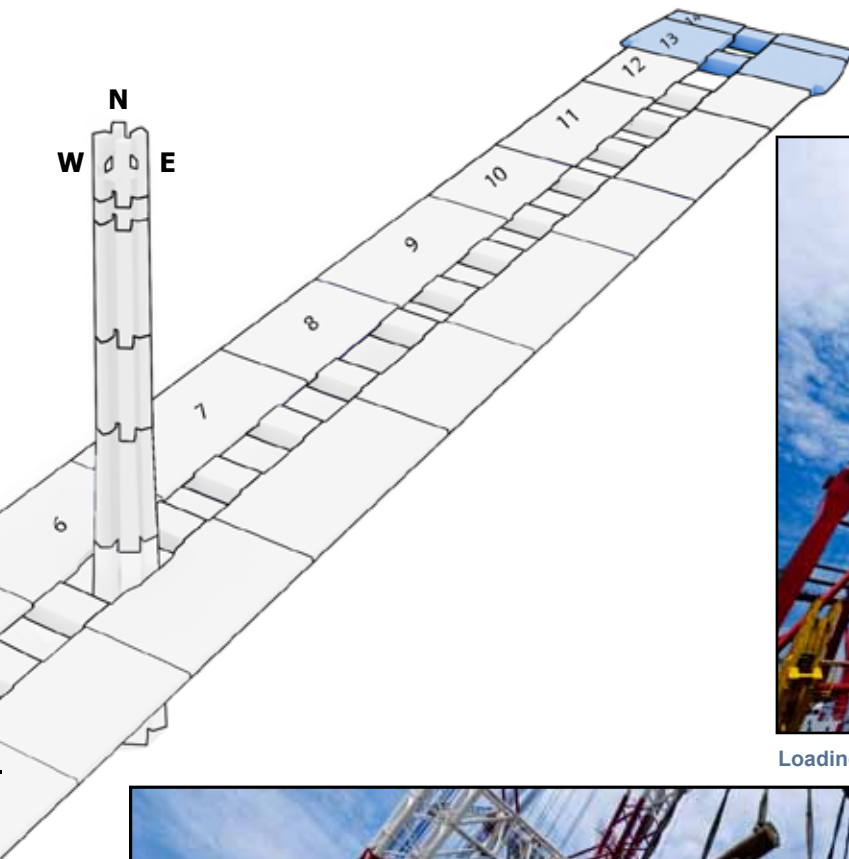


Roadway Box 14 West Being Loaded onto Ship



Fabrication Progress Diagram

Through June 30, 2011



Loading Roadway Box 14 West onto the Ship



Loading Roadway Box 14 West onto the Ship - the Last Steel Voyage

TOLL BRIDGE SEISMIC RETROFIT PROGRAM

Self-Anchored Suspension (SAS) Superstructure Fabrication Activities (cont.)

Cables and Suspenders

One continuous main cable will be used to support the roadway deck of the SAS bridge. The main cable will be anchored within the westbound roadway box at the east end of the SAS near pier E2, then extend west over the northeast saddle towards the tower saddle at T1. It will then loop around pier W2 westbound deviation saddle, extend through the jacking beam saddle and extend around the eastbound deviation saddle at W2 over the tower saddle at T1 again to the south east saddle and finally anchor within the eastbound roadway box near pier E2. The main cable is made up of 137 bundles of wire strands and a number of smaller suspender ropes will connect the roadway decks to the main cable.

Status: All main cables strands have been fabricated and delivered to the job site and stored at Pier 7 in Oakland. The cable bands are in fabrication and forecast to be completed in August 2011. The suspender ropes are in fabrication and forecast to be completed in September 2011.

Saddles, Bearings, Hinges, and Other Bridge Components

The mounts on which the main cable and suspender ropes will sit are solid steel castings. Castings for the main cable saddles were made by Japan Steel Works, while the cable bands and brackets are being made by Goodwin Steel in the United Kingdom.

The bridge bearings and hinges that support, connect, and transfer loads from the Self-anchored Suspension (SAS) Span to the adjoining sections of the new east span are being fabricated in a number of locations. Work on the bearings is being performed in Pennsylvania, USA and Hochang, South Korea, while hinge pipe beams are being fabricated in Oregon, USA.

Status: The west and east deviation cable saddles, jacking saddle and pipe beams have been fabricated and installed on the W2 cap beam. Hinge A seismic expansion is in fabrication and is currently scheduled for completion in November 2011. Some of the SAS traveler rails and bike path have been fabricated and installed and forecast for completion in September 2011.



Cable Bands Ready for Painting



Sample of Cable Band Compaction Testing Performed at Pier 7 in Oakland

TOLL BRIDGE SEISMIC RETROFIT PROGRAM

Self-Anchored Suspension (SAS) Superstructure Field Activities



Shear-Leg Crane Barge in Process of Lifting Roadway Box 11 West



Temporary Support Structures with E2 Cap Beam and Completed Skyway in background



Pier W2 and Hinge K and West Deviation Saddle on left and YBITS #1 on right

Shear-Leg Crane Barge

The massive shear-leg barge crane that is helping to build the SAS superstructure arrived in the San Francisco Bay on March 12, 2009 after a trans-Pacific voyage.

The crane and barge are separate units operating as a single entity named the “Left Coast Lifter.” The 400-by-100-foot barge is a U.S.-flagged vessel that was custom built in Portland, Oregon by U.S. Barge, LLC and outfitted with the crane by Shanghai Zhenhua Heavy Industry Co. Ltd. (ZPMC) at a facility near Shanghai, China. The crane’s boom weighs 992 tons and is 328 feet long. The crane can lift up to 1,873 tons, including the deck and tower boxes for the SAS.

Status: The shear-leg crane barge arrived at the job site March 2009. The crane has off-loaded and placed all temporary support structures and SAS roadway boxes and crossbeams.

Temporary Support Structures

To erect the roadway decks and tower of the bridge, temporary support structures were first put in place. Almost a bridge in itself, the temporary support structures stretch from the end of the completed Skyway back to Yerba Buena Island. For the tower, a strand jack system is being built into the tower’s temporary frame to elevate the upper sections of the tower into place. These temporary supports are being fabricated in the Bay Area, as well as in Oregon and in China at ZPMC.

Status: The temporary support structures were completed in mid-September 2010.

Cap Beams

Construction of the massive steel-reinforced concrete cap beams that link the columns at piers W2 and E2 was left to the SAS superstructure contractor and represents the only concrete portions of work on that contract. The east and west ends of the SAS roadway will rest on the cap beams and the main cable will wrap around pier W2, while anchoring into the east end of the SAS deck sections near E2.

Status: Completed in March 2009

TOLL BRIDGE SEISMIC RETROFIT PROGRAM

Self-Anchored Suspension (SAS) Superstructure Roadway and Tower Box Installation Activities

Upon arrival in Oakland, the steel roadway and tower sections are off-loaded directly from the transport ship onto barges to await installation atop the temporary support structures. Steel roadway boxes will be installed from west to east. Due to the shallow waters near Yerba Buena Island, the eastbound lanes on the south side of the new bridge will be installed first, then to be followed by the westbound lanes. In total, there are 28 roadway boxes (14 in each direction) that range from 560 to 1660 tons and from 80 to 230 feet long.

The tower comprises four legs, each made up of four tower lifts that make up the majority of the height of the tower, the tower grillage, and finally the tower head.

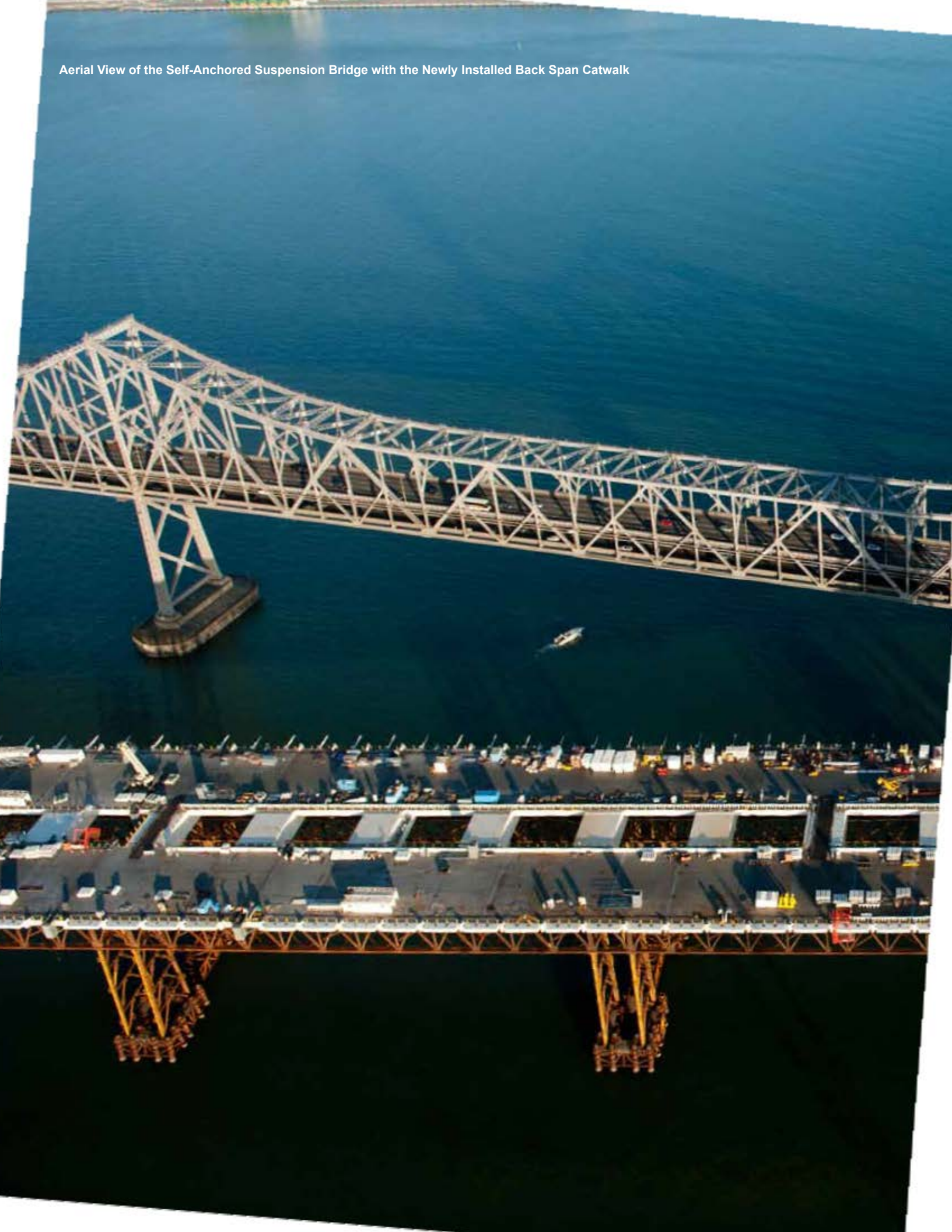
Status: Twenty-four of 28 roadway boxes have been erected to form a continuous roadway. Painting, welding and bolting continues on all roadway boxes. All four tower legs along with the tower grillage and the tower saddle have been installed as of mid-May 2011. The tower head and roadway box 12 east and west arrived at Pier 7 in Oakland on June 3, 2011 and were both lifted into place by the end of June 2011. Roadway boxes 13 and 14 east and west are in fabrication and are expected to be shipped in July 2011 along with cross beams 18 and 19. The back span catwalk was installed in June 2011.





The Saddle Being Installed atop the Tower of the Self-Anchored Suspension Bridge

Aerial View of the Self-Anchored Suspension Bridge with the Newly Installed Back Span Catwalk



Self-Anchored Suspension Bridge Tower Grillage Being Prepared for Assembly with Tower Saddle



TOLL BRIDGE SEISMIC RETROFIT PROGRAM

San Francisco-Oakland Bay Bridge East Span Replacement Project Skyway

The Skyway, which comprises much of the new East Span, will drastically change the appearance of the Bay Bridge. Replacing the gray steel that currently cages drivers, a graceful, elevated roadway supported by piers will provide sweeping views of the bay.

E Skyway Contract

Contractor: Kiewit/FCI/Manson, Joint Venture

Approved Capital Outlay Budget: \$1.25 B

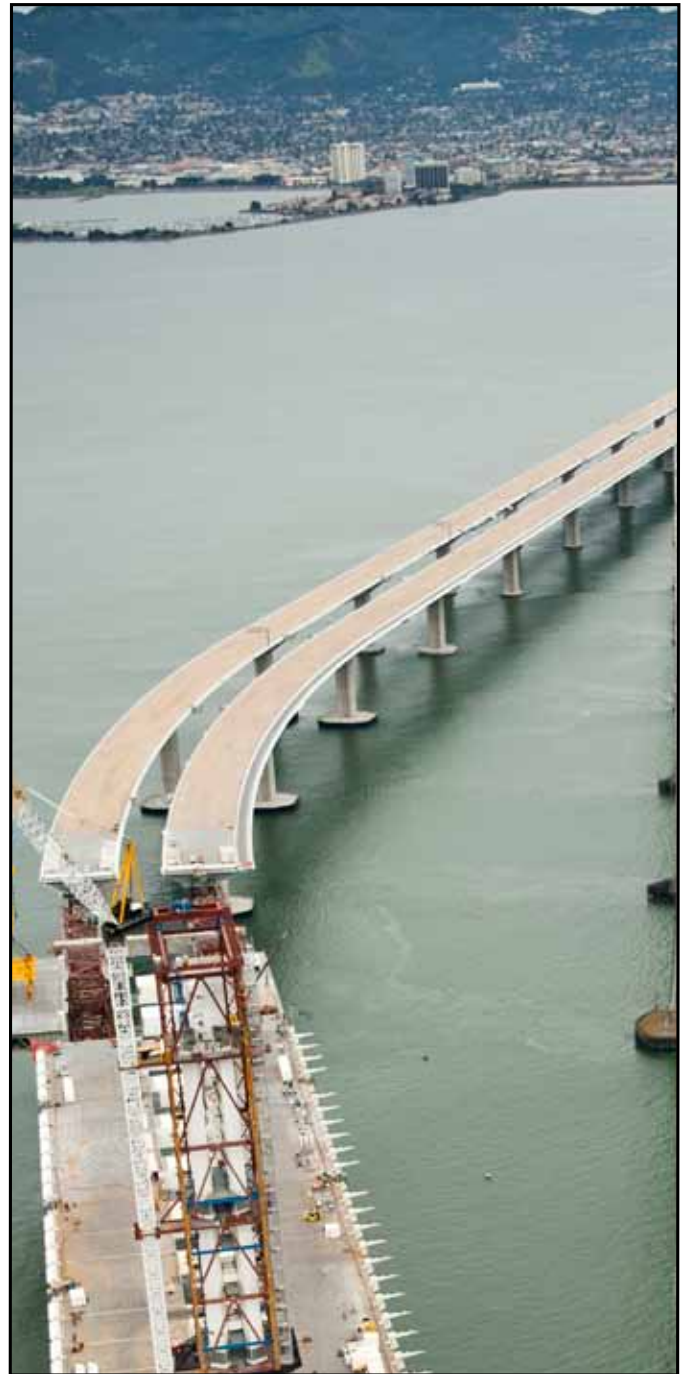
Status: Completed March 2008

Extending for more than a mile across Oakland mudflats, the Skyway is the longest section of the East Span. It sits between the new Self-Anchored Suspension (SAS) span and the Oakland Touchdown. In addition to incorporating the latest seismic-safety technology, the side-by-side roadway decks of the Skyway feature shoulders and lane widths built to modern standards.

The Skyway's decks are composed of 452 pre-cast concrete segments (standing three stories high), containing approximately 200 million pounds of structural steel, 120 million pounds of reinforcing steel, 200 thousand linear feet of piling and about 450 thousand cubic yards of concrete. These are the largest segments of their kind ever cast and were lifted into place by custom-made winches.

The Skyway marine foundation consists of 160 hollow steel pipe piles measuring eight feet in diameter and dispersed among 14 sets of piers. The 365-ton piles were driven more than 300 feet into the deep bay mud. The new East Span piles were battered or driven in at an angle, rather than vertically, to obtain maximum strength and resistance.

Designed specifically to move during a major earthquake, the Skyway features several state-of-the-art seismic safety innovations, including 60-foot-long hinge pipe beams. These beams will allow deck segments on the Skyway to move, enabling the deck to withstand greater motion and to absorb more earthquake energy.



Overview of the Skyway Looking East toward Oakland



TOLL BRIDGE SEISMIC RETROFIT PROGRAM

San Francisco-Oakland Bay Bridge East Span Replacement Project Oakland Touchdown

When completed, the Oakland Touchdown (OTD) structures will connect Interstate 80 in Oakland to the new side-by-side decks of the new East Span. For westbound drivers, the OTD will be their introduction to the graceful new East Span. For eastbound drivers from San Francisco, this section of the bridge will carry them from the Skyway to the East Bay, offering unobstructed views of the Oakland hills.

The OTD will be constructed through two contracts. The first contract will build the new westbound lanes, as well as part of the eastbound lanes. The second contract to complete the eastbound lanes cannot fully begin until westbound traffic is shifted onto the new bridge. This enables a portion of the upper deck of the existing bridge to be demolished allowing for a smooth transition for the new eastbound lanes in Oakland.

F Oakland Touchdown #1 Contract

Contractor: MCM Construction, Inc.
Approved Capital Outlay Budget: \$212.0 M
Status: Completed June 2010

The OTD #1 contract constructed the entire 1,000-foot-long westbound approach from the toll plaza to the Skyway. When open to traffic, the westbound approach structure will provide direct access to the westbound Skyway. In the eastbound direction, the contract will construct a portion of the eastbound structure and all of the eastbound foundations that are not in conflict with the existing bridge.

Status: MCM Construction, Inc. completed OTD #1 westbound and eastbound phase 1 on June 8, 2010.

G Oakland Detour

Contractor: MCM Construction, Inc.
Approved Capital Outlay Budget: \$51.0 M
Status: In Construction

To ensure a simultaneous eastbound and westbound opening of the bridge by December 2013, the TBPOC has approved an acceleration plan that will construct a detour at the Oakland end of the bridge to allow for expedited construction of the OTD #2 contract. The detour realigns the bridge approach to the south to allow for construction of the remaining portion of OTD that was in conflict with the existing bridge.

Status: The westbound detour construction is in progress and is forecast to be completed at the beginning of spring 2012. A full closure of the bridge is not expected at this time. The Burma Road extension access and the eastbound detour is complete.

H Oakland Touchdown #2 Contract

Contractor: TBD
Approved Capital Outlay Budget: \$62.0 M
Status: In Design

The OTD #2 contract will complete the eastbound approach structure from the end of the Skyway to Oakland. This work is critical to the eastbound opening of the new bridge by December 2013.

Status: The TBPOC has approved an acceleration plan that will construct a detour at the Oakland end of the bridge to allow for expedited construction of the OTD #2 contract. OTD #2 is currently in design and the contract for construction will be advertised in October 2011 and awarded in April 2012.



TOLL BRIDGE SEISMIC RETROFIT PROGRAM

San Francisco-Oakland Bay Bridge East Span Replacement Project Other Contracts

A number of contracts needed to relocate utilities, clear areas of archeological artifacts, and prepare areas for future work have already been completed. The last major contract will be the eventual demolition and removal of the existing bridge, which by that time will have served the Bay Area for nearly 80 years. Following is a status of some the other East Span contracts.

East Span Interim Seismic Retrofit

Contractors: 1) California Engineering
2) Balfour Beatty

Approved Capital Outlay Budget: \$30.8 M

Status: Completed October 2000

After the 1989 Loma Prieta Earthquake, and before the final retrofit strategy was determined for the East Span, Caltrans completed an interim retrofit of the existing bridge to prevent a catastrophic collapse of the bridge should a similar earthquake occur before the East Span was completely replaced. The interim retrofit was performed under two separate contracts that lengthened pier seats, added some structural members, and strengthened areas of the bridge so they would be more resilient during an earthquake.

Stormwater Treatment Measures

Contractor: Diablo Construction, Inc.

Approved Capital Outlay Budget: \$18.3 M

Status: Completed December 2008

The Stormwater Treatment Measures contract implemented a number of best practices for the management and treatment of stormwater runoff. Focused on the areas around and approaching the toll plaza, the contract added new drainage and built new bio-retention swales and other related constructs.



Archeological Investigations



Existing East Span of the San Francisco-Oakland Bay Bridge



Stormwater Retention Basin



Yerba Buena Island Substation

Contractor: West Bay Builders

Approved Capital Outlay Budget: \$11.6 M

Status: Completed May 2005

This contract relocated an electrical substation just east of the Yerba Buena Island Tunnel in preparation for the new East Span.

Pile Installation Demonstration

Contractor: Manson and Dutra, Joint Venture

Approved Capital Outlay Budget: \$9.3 M

Status: Completed December 2000

While large-diameter battered piles are common in offshore drilling, the new East Span is one of the first bridges to use them in its foundations. To minimize project risks and build industry knowledge, a pile installation demonstration project was initiated to prove the efficacy of the proposed technology and methodology. The demonstration was highly successful and helped result in zero contract change orders or claims for pile driving on the project.

I Existing Bridge Demolition

Contractor: TBD

Approved Capital Outlay Budget: \$239.1 M

Status: In Design

Design work on the demolition of the existing bridge will start in earnest as the opening of the new bridge to traffic approaches. The current plan is to complete the environmental clearance by December 2011, obtain all permits by June 2012 and advertise and award the contract in January 2013. Demolition of the existing bridge is scheduled to begin immediately after the new bridge is opened to traffic in 2013.



New YBI Electrical Substation

J Electrical Cable Relocation

Contractor: Manson Construction

Approved Capital Outlay Budget: \$9.6 M

Status: Completed January 2008

A submerged cable from Oakland that is close to where the new bridge will touch down supplies electrical power to Treasure Island. To avoid any possible damage to the cable during construction, two new replacement cables were run from Oakland to Treasure Island. The extra cable was funded by the Treasure Island Development Authority.

TOLL BRIDGE SEISMIC RETROFIT PROGRAM

Antioch Bridge Seismic Retrofit Project

Contractor: California Engineering Contractors, Inc.

Approved Capital Outlay Budget: \$70.0 M

Status: 61% Complete as of June 2011

Serving the Delta region of the Bay Area, the Antioch Bridge takes State Route 160 traffic over the San Joaquin River, linking eastern Contra Costa County with Sacramento County. The current 1.8-mile-long steel plate girder bridge was opened in 1978 with one lane in each direction. The major retrofit measure for the bridge includes installing seismic isolation bearings at each of the 41 piers, strengthening piers 12 through 31 with steel cross-bracing between column bents, and installing steel casings at all columns located at the Sherman Island approach slab bridge.

Status: Fabrication and testing of all isolation bearings has been completed. Of the 82 isolation bearings, 36 have been installed at 18 of the 41 piers.

Fabrication of the cross bracing to be installed between the two column bents is 70 percent completed, (total 20 piers to be retrofitted with cross bracing). Eight pier cross frame retrofits have been installed, or 40 percent complete. Field painting of the cross bracing is the last major activity in completing the pier retrofit. Three of the twenty cross frames have been painted, or 15 percent of the total.

Fabrication of the column casing to be installed at the Sherman Island has been completed and delivered to the site. Column casing installation is scheduled to start late in the third quarter or beginning of the fourth quarter of 2011.

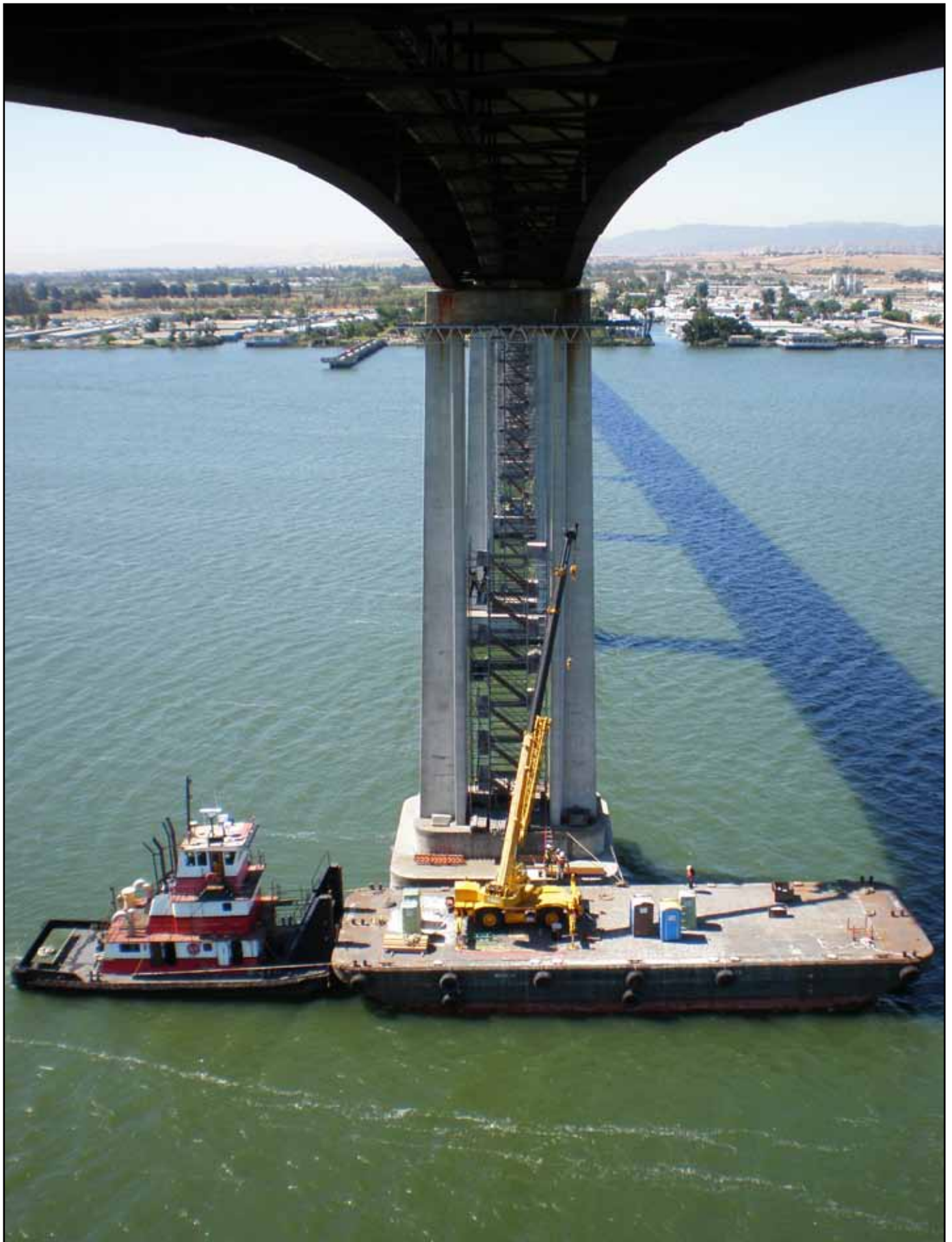
Instrumentation is being placed on the structure and within the soil to provide information on motion during future seismic events. Drilling for the seismic monitoring casing is underway for down holes to install seismic sensors, 250, 160, 80, 50, 20 and 4 feet below the ground surface. State forces are making measurements (P– S seismic waves) prior to installing accelerometers into six different down holes.



Down Holes Being Drilled for Seismic Monitoring Devices up to 250 Feet Below Grade



Application of Final Paint Coat at Cross Frames



Installation of Access Scaffolding at Pier 14

Dumbarton Bridge Seismic Retrofit Project

Contractor: Shimmick Construction Company, Inc.

Approved Capital Outlay Budget: \$92.7 M

Status: 22% Complete as of June 2011

The current Dumbarton Bridge was opened to traffic in 1982 linking the cities of Newark in Alameda County and East Palo Alto in San Mateo County. The 1.6-mile long bridge has six lanes (three in each direction) and an eight-foot bicycle/pedestrian pathway. The bridge is a combination of three bridge types; reinforced concrete slab approaches supported on multiple pile extension columns, precast-prestressed concrete delta girders and steel box girders supported on reinforced concrete piers. The current retrofit strategy for the bridge includes superstructure and deck modifications and installation of isolation bearings.

Status: Construction of bent cap extensions at the west trestle approach are completed and all east approach trestle bent columns have been constructed. The remaining reinforced concrete bent cap extensions at the east approach trestle have been formed and will be cast next month. Construction of the pump station continues with the vertical walls complete that will allow for the removal of the temporary coffer dam whales and braces.

Pier bent caps (piers 16 - 31) will be widened for the installation of the isolation bearings. Currently, concrete roughening, core drilling and bonding of new reinforcing steel is progressing at piers 17 through 22. At the completion of installing the reinforcing steel, forms will be installed so the reinforced concrete bent caps can be widened. Nesting of peregrine falcons at pier 16 is no longer delaying construction at this pier.

Within the twin (east and west bound) steel box girder superstructure, the existing cross frames at piers 16 through 31) will be removed and reconstructed. The reconstructed cross frames will allow a hydraulic jacks to vertically lift the superstructure, a total load of some 62,000 kips (or 31,000 tons) that includes dead and live loads. The superstructure between piers 16 - 31 will be raised approximately five inches so the isolation bearings can be installed between the top of the bent caps and soffit of the box girders. Cross frames will be removed at the interior box cells (2 per bent) and reconstructed prior to removing the exterior box cells (2 per bent). The existing cross frames within the interior box cells have been removed at piers 17 and 18, and reconstruction of the cross frames is underway at these locations. Reconstruction of electrical conduits in substations located at piers 1 and 44 continues so that the abutment backwalls can be modified to allow for seismic movements.



Dumbarton Bridge



Placement of Reinforcing Steel at Pier 17 Bent



Forms in Place for Pump Station Walls



Core Drilling Operation Will Allow for Reinforcing Steel to Anchor into the existing Bent Cap

TOLL BRIDGE SEISMIC RETROFIT PROGRAM

Other Completed Projects

In the 1990s, the State Legislature identified seven of the nine state-owned toll bridges for seismic retrofit. In addition to the San Francisco-Oakland Bay Bridge, these included the Benicia-Martinez, Carquinez, Richmond-San Rafael and San Mateo-Hayward bridges in the Bay Area, and the Vincent Thomas and Coronado bridges in Southern California. Other than the East Span of the Bay Bridge, the retrofits of all of the bridges have been completed as planned.

San Mateo-Hayward Bridge Seismic Retrofit Project

Project Status: Completed 2000

The San Mateo-Hayward Bridge seismic retrofit project focused on strengthening the high-rise portion of the span. The foundations of the bridge were significantly upgraded with additional piles.



High-Rise Section of San Mateo-Hayward Bridge

1958 Carquinez Bridge Seismic Retrofit Project

Project Status: Completed 2002

The eastbound 1958 Carquinez Bridge was retrofitted in 2002 with additional reinforcement of the cantilever thru-truss structure.

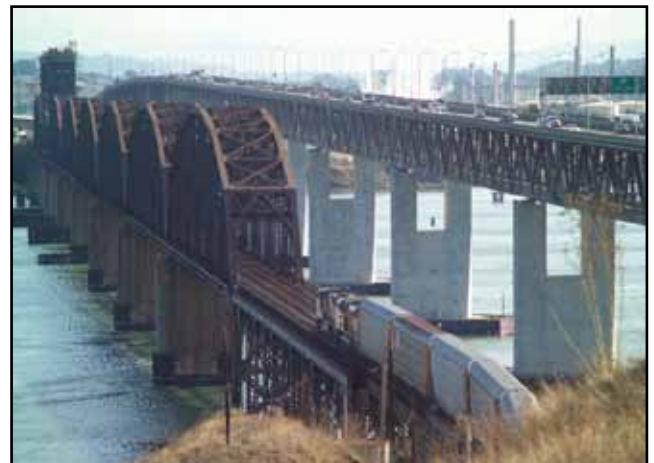


1958 Carquinez Bridge (foreground) with the 1927 Span (middle) under Demolition and the New Alfred Zampa Memorial Bridge (background)

1962 Benicia-Martinez Bridge Seismic Retrofit Project

Project Status: Completed 2003

The southbound 1962 Benicia-Martinez Bridge was retrofitted to "Lifeline" status with the strengthening of the foundations and columns and the addition of seismic bearings that allow the bridge to move during a major seismic event. The Lifeline status means the bridge is designed to sustain minor to moderate damage after a seismic event and to reopen quickly to emergency response traffic.



1962 Benicia-Martinez Bridge (right)

Richmond-San Rafael Bridge Seismic Retrofit Project

Project Status: Completed 2005

The Richmond-San Rafael Bridge was retrofitted to a “No Collapse” classification to avoid catastrophic failure during a major seismic event. The foundations, columns, and truss of the bridge were strengthened, and the entire low-rise approach viaduct from Marin County was replaced.



Richmond-San Rafael Bridge

Los Angeles-Vincent Thomas Bridge Seismic Retrofit Project

Project Status: Completed 2000

The Vincent Thomas Bridge is a 1,500-foot long suspension bridge crossing the Los Angeles Harbor in Los Angeles that links San Pedro with Terminal Island. The bridge was one of two state-owned toll bridges in Southern California (the other being the San Diego-Coronado Bridge). Opened in 1963, the bridge was seismically retrofitted as part of the TBSRP in 2000.



Los Angeles-Vincent Thomas Bridge

San Diego-Coronado Bridge Seismic Retrofit Project

Project Status: Completed 2002

The San Diego-Coronado Bridge crosses over San Diego Bay and links the cities of San Diego and Coronado. Opened in 1969, the 2.1-mile long bridge was seismically retrofitted as part of the Toll Bridge Seismic Retrofit Project in 2002.



San Diego-Coronado Bridge

TOLL BRIDGE SEISMIC RETROFIT PROGRAM Risk Management Program Update

POTENTIAL DRAW ON PROGRAM RESERVE (PROGRAM CONTINGENCY)

Assembly Bill (AB) 144 provides that Caltrans “regularly reassess its reserves for potential claims and unknown risks, incorporating information related to risks identified and quantified through its risk assessment processes.”

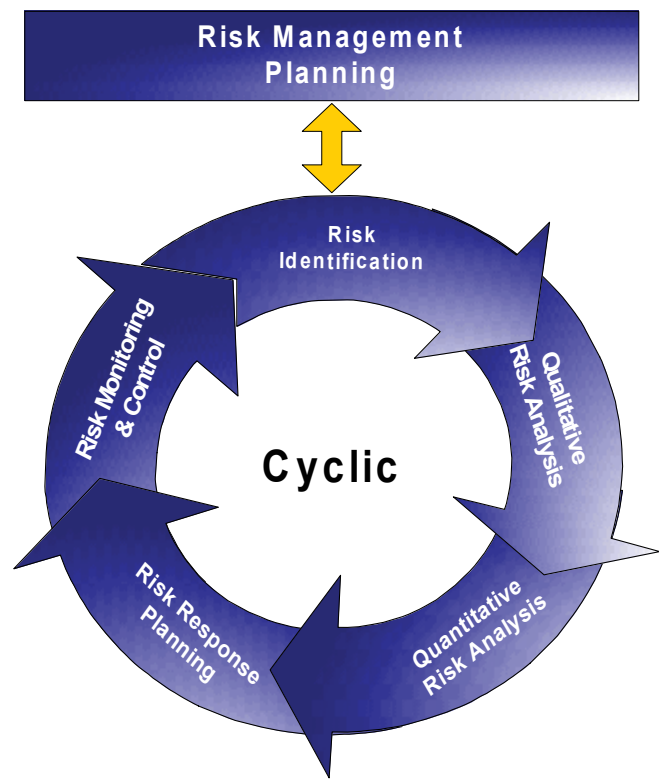
AB 144 set a \$900 million Program Reserve (also referred to as the program contingency). On October 11, 2009, Governor Schwarzenegger approved Assembly Bill No. 1175 that added the Dumbarton and Antioch Bridges to the Toll Bridge Seismic Retrofit Program and this resulted in changes to program contingency. **The program contingency is currently \$308 million according to the TBPOC approved budget.**

The approved TBSRP Risk Management Plan provides for the determination of the estimated potential draw on program contingency each quarter based on the total of all risks and the contingencies remaining from the contracts. Each contract in design has an assigned contingency allowance. Each contract in construction has a remaining contingency, which is the difference between its budget and the sum of bid items, state-furnished materials, contract change orders and remaining supplemental work. Capital outlay support has no identified contingency allowance. The total of the contingencies is the amount that is available to cover the risks of all contracts, program-level risks (the risks not assigned to a particular contract), and capital outlay support risks. The amount by which the sum of all risks may exceed the total of all contingencies would represent a potential draw on the program contingency (i.e., program reserve).

The approved TBSRP Risk Management Plan provides for the determination of the estimated potential draw on program contingency each quarter, and compares it to the current balance in the program contingency. The second quarter of 2011 potential draw curve is shown in Figure 1.

As of the end of the second quarter of 2011, the 50 percent probable draw on program contingency is \$200 million. The potential draw ranges from about \$60 million to \$300 million.

The current program contingency balance is sufficient to cover the cost of currently identified risks. In accordance with the approved TBSRP Risk Management Plan,



risk mitigation actions are continuously developed and implemented to reduce the potential draw on the program contingency.

RISK MANAGEMENT DEVELOPMENTS

There was an approximate \$45 million decrease in the 50% probable remaining program contingency Balance (i.e., the approved TBPOC program contingency Balance less the 50% Probable Draw) this quarter. This change is predominantly attributed to the approximate \$40 million decrease in the dismantling project contingency this quarter – this resulted from an increase in the dismantling project’s cost estimate associated with proposed schedule compression, as well as a better understanding of the estimated costs associated with marine access. The addition of the dismantling project’s cost risk numbers this quarter did not significantly change the total dismantling project’s forecast because of identified capital outlay support opportunities also quantified this quarter.

Outside of the dismantling project, the decrease in program cost risks this quarter were largely offset by the increase in costs carried in the program’s Contract Change Order (CCO) logs. Cost risks on the SAS contract trended downward this quarter, however, the forecast for the SAS did not change significantly as a result of the approximate increase of \$15 million in scope changes/enhancements approved by the TBPOC this quarter. Additional scope changes/enhancements (e.g.,

schedule compression of the dismantling project) are being considered by the TBPOC and, if approved, will be reflected in the future quarters' Potential Draw to program contingency curve.

The SAS contractor's updated schedule meets the TBPOC's milestones for opening the bridge in 2013. However, the contractor's schedule does not incorporate a milestone for turning over the Hinge K work area to the YBI #1 contractor for completion of the Hinge K closures. This potentially places the YBITS1 contract on the critical path to bridge opening, possibly extending it by several months. The risk management team mitigated this schedule risk by re-sequencing some SAS contract activities to after bridge opening. Discussions are ongoing to resolve this coordination issue between the SAS and YBITS1 contractors, and the goal is to merge the construction activities of both contracts into one schedule and use it to plan the work to provide bridge opening as soon as possible.

Right-of-way acquisition risks, the largest risks early in the Oakland Touchdown Detour project, were successfully resolved by the project team, allowing the eastbound detour to open on time. Construction of the westbound detour widening structure foundations began immediately after traffic was switched to the eastbound detour. The design of the superstructure is advancing and will be completed by the end of this year.

RISK MANAGEMENT LOOK AHEAD

The corridor schedule is aggressive and there are risks to the future activities on the critical paths through SAS orthotropic box girder delivery and erection, cable installation, load transfer, and completion of mechanical, electrical, and plumbing systems required for the bridge opening. Caltrans and the SAS and YBITS1 contractors are implementing a plan to enhance mutual schedule management in order to proactively identify impending risks so that action can be taken swiftly to prevent or mitigate potential delays. The risk management team has assessed the risks and identified Caltrans activities

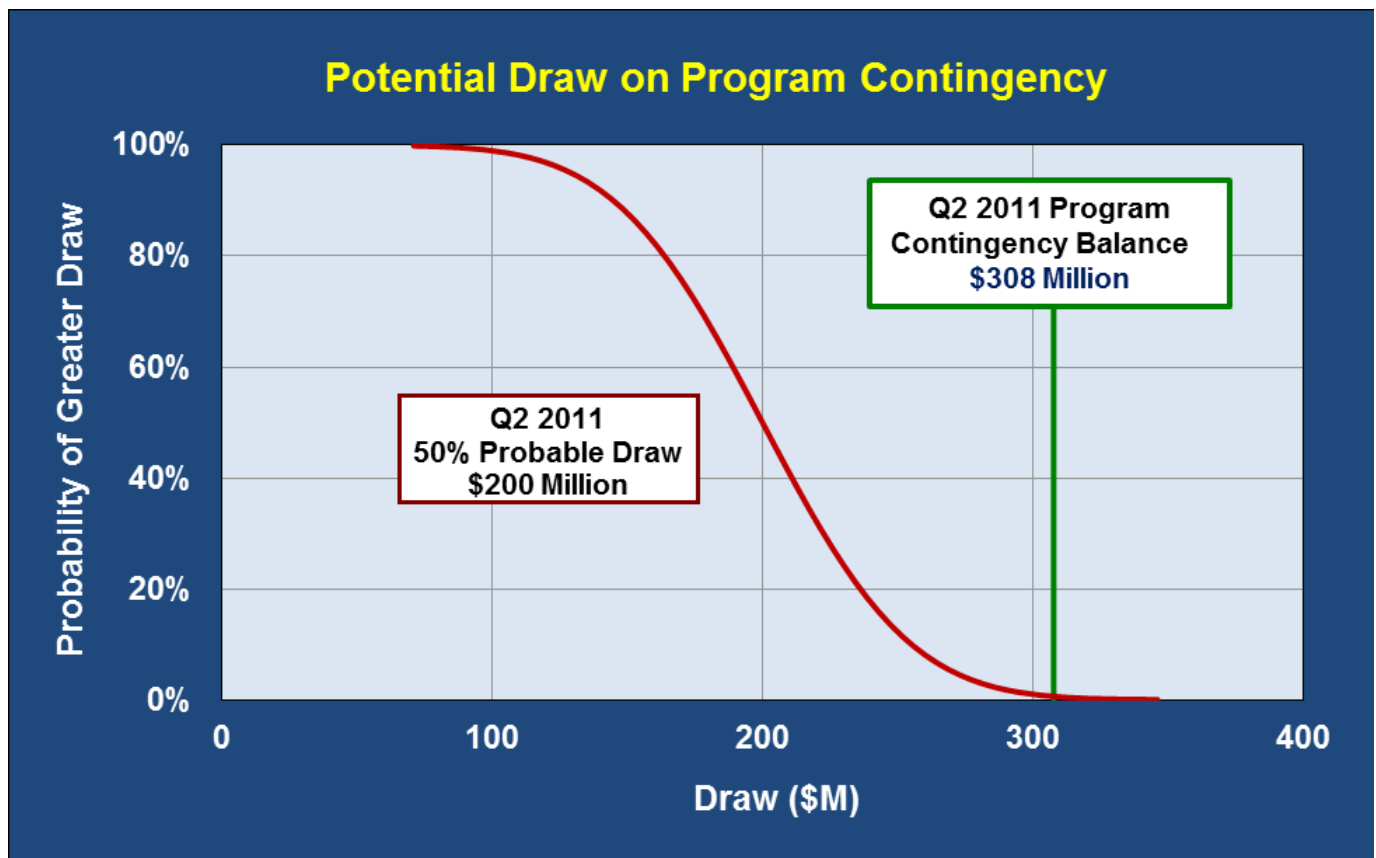


Figure 1 – Potential Draw on Program Contingency*

*Figure 1 Notes:

1. The Program Contingency is currently \$308 million per the TBPOC Approved Budget.
2. Program Contingency may be used for other beneficial purposes than to cover risks.
3. Potential risks associated with potential out-of-scope corridor improvements are excluded. Proposed architectural enhancements and project improvements are currently under development; such proposals are excluded unless approved by the TBPOC.
4. The potential draw chart should not be construed as a forecast of the future balance of Program Contingency funds.

TOLL BRIDGE SEISMIC RETROFIT PROGRAM

Risk Management Program Update (cont.)

that must align with the SAS and YBITS1 contractor's incentivized milestones.

The San Francisco Ramps project is scheduled to start while the YBITS1 contractor is working on Yerba Buena Island, giving rise to coordination issues such as slope stability, traffic maintenance, and conflicts in schedule and staging. Discussions are on-going to resolve these potential issues.

Aggressive planning for the future East Span dismantling work is underway. Project scope is being refined and an assessment to select the most prudent and efficient procurement strategy for the dismantling work is being performed. Development of project plans, specifications, schedule, and cost is ongoing. In concert with this effort, the risk management team will be updating the risk registers for the dismantling work. The comprehensive quantitative cost and schedule

risk assessment will be refined next quarter and incorporated in the program's quantitative cost and schedule results.



Aerial View of the Westbound Yerba Buena Island Transition Structure alongside the Existing Detour



Overview of the Yerba Buena Island Transition Structures Westbound, the Self-Anchored Suspension Tower and the East and Westbound Box Girders

TOLL BRIDGE SEISMIC RETROFIT PROGRAM

Program Funding Status

AB 144 established a funding level of \$8.685 billion for the TBSRP. The bill specifies program funding sources as shown in Table 1-Program Budget.

**Table 1—Program Budget
as of June 30, 2011 (\$ Millions)**

	Budgeted	Funding Available & Contribution
Financing		
Seismic Surcharge Revenue AB 1171	2,282.0	2,282.0
Seismic Surcharge Revenue AB 144	2,150.0	2,150.0
Seismic Surcharge Revenue AB 1175 ⁽⁵⁾	750.0	750.0
BATA Consolidation	820.0	820.0
Subtotal - Financing	6,002.0	6,002.0
Contributions		
Proposition 192	790.0	789.0
San Diego Coronado Toll Bridge Revenue Fund	33.0	33.0
Vincent Thomas Bridge	15.0	6.9
State Highway Account ⁽¹⁾⁽²⁾	745.0	745.0
Public Transportation Account ⁽¹⁾⁽³⁾	130.0	130.0
ITIP/SHOPP/Federal Contingency	448.0	200.0
Federal Highway Bridge Replacement and Rehabilitation (HBRR)	642.0	642.0
SHA - East Span Demolition	300.0	-
SHA - "Efficiency Savings" ⁽⁴⁾	130.0	63.0
Redirect Spillover	125.0	125.0
Motor Vehicle Account	75.0	75.0
Subtotal - Contribution	3,433.0	2,808.9
Total Funding	9,435.0	8,810.9
Encumbered to Date		7,502.7
Remaining Unallocated		1,308.2
Expenditures :		
Capital Outlay		5,655.1
State Operations		1,490.1
Antioch and Dumbarton Expenditures by BATA		12.2
Total Expenditures		7,157.5
Encumbrances : ⁽⁶⁾		
Capital Outlay		327.7
State Operations		17.6
Total Encumbrances		345.3
Total Expenditures and Encumbrances		7,502.7

⁽¹⁾ The California Transportation Commission adopted a new schedule and changed the PTA/SHA split on December 15, 2005.

⁽²⁾ To date \$645 million has been transferred from the SHA to the TBSRP, including the full \$290 million transfer scheduled by the CTC to occur in 2005-06. An additional \$100 million has been expended directly from the account.

⁽³⁾ To date \$130 million has been transferred from the PTA to the TBSRP, including the full amount of all transfers scheduled by the CTC.

⁽⁴⁾ To date \$10 million has been transferred from the SHA to the TBSRP, representing the commitment of "Efficiency Savings" identified under AB 144.

Approximately \$120 million remains to be distributed as scheduled by the CTC.

⁽⁵⁾ As of January 1, 2010, seismic retrofitting of Antioch and Dumbarton Bridges became part of the Toll Bridge Seismic Retrofit Program with the passage of AB 1175.

Summary of the Toll Bridge Oversight Committee (TBPOC) Expenses

Pursuant to Streets and Highways Code Section 30952.1 (d), expenses incurred by Caltrans, BATA, and the California Transportation Commission (CTC) for costs directly related to the duties associated with the TBPOC are to be reimbursed by toll revenues. Table 3 -Toll Bridge Program Oversight Committee Estimated Expenses: July 1, 2005 through December 31, 2010 shows expenses through March 31, 2011 for TBPOC functioning, support, and monthly and quarterly reporting.

Table 2—CTC Toll Bridge Seismic Retrofit Program Contributions Adopted December 2005
Schedule of Contributions to the Toll Bridge Seismic Retrofit Program (\$ Millions)

Source	Description	2005-06 (Actual)	2006-07 (Actual)	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Actual)	2010-11 (Actual)	2011-12	2012-13	2013-14	Total
AB 1171	SHA	290									290
	PTA	80	40								120
	Highway Bridge Replacement and Rehabilitation (HBRR)	100	100	100	42						342
	Contingency				1	99	100	100	148		448
AB 144	SHA*	2	8				53	50	17		130
	Motor Vehicle Account (MVA)	75									75
	Spillover		125								125
	SHA**									300	300
	Total	547	273	100	43	99	153	150	165	300	1830

* Caltrans Efficiency Savings

** SFOBB East Span Demolition Cost

Table 3—Toll Bridge Program Oversight Committee
Estimated Expenses: July 1, 2005 through June 30, 2011 (\$ Millions)

Agency/Program Activity	Expenses
BATA	1.1
Caltrans	2.2
CTC	1.7
Reporting	4.1
Total Program	9.1

TOLL BRIDGE SEISMIC RETROFIT PROGRAM

Quarterly Environmental Compliance Highlights

Overall environmental compliance for the San Francisco Oakland-Bay Bridge (SFOBB) East Span project has been a success. There are no comments from regulatory agencies. The tasks for the current quarters are focused on mitigation monitoring. Key successes in this quarter are as follows:

- Bird monitoring was conducted weekly in the active construction area. Monitors did not observe any indication that birds were disturbed due to the East Span construction activities.
- Weekly monitoring of Canada geese along Route 80 roadway adjacent to the Emeryville Crescent for the year began on March 4, 2011 and will continue through August 2011.
- Peregrine falcon monitoring for the 2010/2011 nesting season that began on December 3, 2010 continued through June 20, 2011. The same pair of adult peregrine falcons that successfully nested at Pier E2 of the existing Bay Bridge in the 2008/2009 and 2009/2010 nesting seasons returned and established a nest at the same site.
- On April 8, four eggs were observed in the nest and on April 20, three nestlings were observed for the first time. The three nestlings were banded on May 5 and it was determined that there were two males and one female. On May 31 the two male nestlings were not observed in the nest; it was assumed that the two males fledged over Memorial Day weekend. On June 1, one of the male fledglings was observed by the bird monitor on a crossbeam above the upper deck of the SFOBB. The female nestling fledged around June 1 and was observed approximately four feet below the nest site on a platform. After June 1, the nestlings were not observed again by the bird monitor; however, crew on the bridge reported several anecdotal sightings of the juveniles. Behavior of the adult peregrines, including the delivery of prey to locations not visible to the monitor, suggested that juveniles were present at the site.
- SFOBB environmental compliance and storm water pollution prevention plan (SWPPP) inspections were conducted weekly at all active project sites. The project team continues to work closely with contractors to ensure compliance with environmental permits and regulations and improve SWPPP and best management practices.
- On May 24, 2011, Caltrans submitted an amendment request letter to the San Francisco Bay Conservation and Development Commission (BCDC). The letter outlined Amendment No. 30 to San Francisco BCDC Permit No. 8-01. Amendment No. 30 specified modifications to the Oakland Touchdown design to include a chevron-shaped landing area and provided details about other public access improvements.
- On June 28, 2011, a ceremony was held to commemorate the addition of Skaggs Island to the San Pablo Bay National Wildlife Refuge, increasing the refuge's current 13,190 acres of protected lands by approximately 25 percent. To facilitate this transfer, Caltrans provided approximately \$9 million to fund building demolition and environmental remediation at the Skaggs Island site.
- Caltrans is working with regulatory agencies and exploring options to meet requirements for shorebird roosting habitat mitigation.
- Caltrans is working on the environmental phase for the dismantling of the existing Bay Bridge.
- The Office of Environmental Analysis (OEA) is working with the various functional units to prepare a comprehensive review of the 2001 Final Environmental Impact Statement (EIS)/Statutory Exemption and

Final Section 4(f) Evaluation. Preliminary assessment indicates re-validation of the EIS is appropriate. The functional units are preparing technical studies and the details of dismantling are being refined to aid in this evaluation.

- On May 27, 2011 Caltrans sent the United States Army Corp Of Engineers a letter requesting the modification of Permit No. 23013S, for the SFOBB East Span Project dated December 4, 2001. The modification was requested to extend the time limit allowed by the permit for work on the SFOBB project to January 1, 2019.
- On June 23, 2011 an Interagency Work Group meeting was hosted by Caltrans. The meeting was attended by representatives from the Bay Conservation and Development Commission (BCDC), National Oceanic and Atmospheric Administration (NOAA), United States Army Corps of Engineers (USACOE), Regional Water Quality Control Board (RWQCB), California Department of Fish and Game (CDFG), and the United States Coast Guard (USCG). During the meeting an SFOBB project update was provided, the scope of the SFOBB dismantling project was reviewed, all SFOBB dismantling-related permit requirements were outlined, various environmental considerations were reviewed, and agency representatives were given an opportunity to provide feedback.
- Caltrans is preparing packages to amend permits for the dismantling of the existing SFOBB. Currently, packages are being prepared for the following agencies: NOAA, CDFG, RWQCB, USCG, and BCDC. The Dredged Material Management Plan (DMMP) is being revisited and preparations are being made to request authorization from the Dredged Material Management Office (DMMO) for the dredging and disposal of material for the SFOBB dismantling





Richmond-San Rafael Bridge

REGIONAL MEASURE 1 TOLL BRIDGE PROGRAM

REGIONAL MEASURE 1 PROGRAM

Interstate 880/State Route 92 Interchange Reconstruction Project

Project Status: In Construction

The Interstate 880/State Route 92 Interchange Reconstruction Project is the final project under the Regional Measure 1 Toll Bridge Program. Project completion fulfills a promise made to Bay Area voters in 1988 to deliver a slate of projects that help expand bridge capacity and improve safety on the bridges.

Interstate 880/State Route 92 Interchange Reconstruction Contract

Contractor: Flatiron/Granite

Approved Capital Outlay Budget: \$163.2 M

Status: 87% Complete as of June 2011

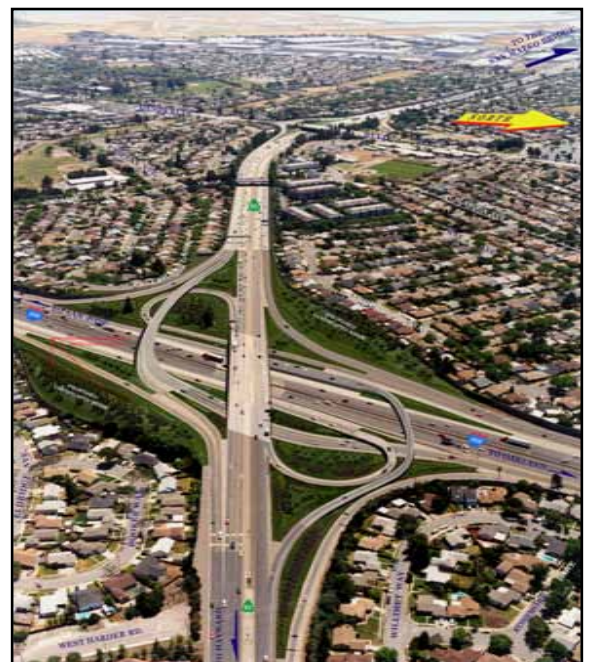
This corridor is consistently one of the Bay Area's most congested during the evening commute. This is due in part to the lane merging and weaving that is required by the existing cloverleaf interchange. The new interchange will feature direct freeway-to-freeway connector ramps that will increase traffic capacity and improve overall safety and traffic operations in the area. With the new direct-connector ramps, drivers coming off of the San Mateo-Hayward Bridge can access Interstate 880 without having to compete with traffic headed onto east Route 92 from south Interstate 880 (see progress photos on pages 72 and 73).



Paving in Progress



Aerial View of Construction Progress



Future Interstate 880/State Route 92 Interchange (as simulated) Looking West toward San Mateo

Stage 1 – Construct East Route 92 to North Interstate 880 Connector

The new east Route 92 to north Interstate 880 connector (ENCONN) is the most critical fly-over structure for relieving congestion in the corridor. The ENCONN will be first used as a detour to allow for future stages of work, while keeping traffic flowing.

Status: ENCONN was completed and opened to detour traffic on May 16, 2009.

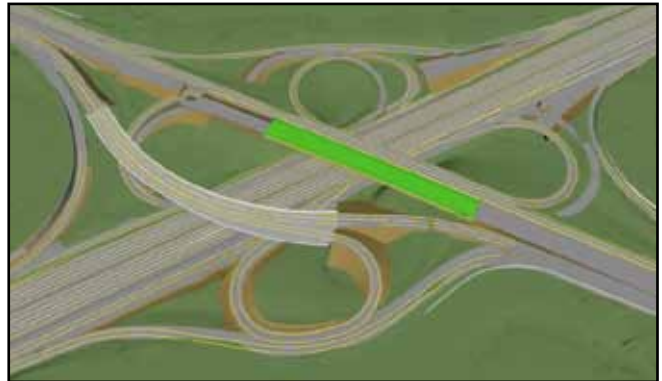


Stage 1 - Construct East Route 92 to North Interstate 880 Direct Connector

Stage 2 – Replace South Side of Route 92 Separation Structure

By detouring eastbound Route 92 traffic onto ENCONN, the existing separation structure that carries SR92 over I-880 can be replaced. The existing structure will be cut lengthwise, and then demolished and replaced separately. In this stage, the south side of the structure will be replaced, while west Route 92 and south Interstate 880 to east Route 92 traffic will stay on the remaining structure.

Status: Work on the south side of the separation structure is complete.



Stage 2 - Demolish and Replace South Side of Route 92 Separation Structure

Stage 3 – Replace North Side of Route 92 Separation Structure

Upon completion of Stage 2, the existing north side of the separation structure will be demolished and replaced. Its traffic will then be shifted onto the newly reconstructed south side.

Status: The north side of the structure opened to traffic in February 2011.



Stage 3 - Demolish and Replace North Side of Route 92 Separation Structure

Stage 4 – Final Realignment and Other Work

In addition to ENCONN and the separation structure, direct north 880 to west 92 connector (NWCONN) and west 92 to south 880 connector (WSCONN) remain to be completed. The new Eldridge Avenue pedestrian overcrossing is now complete.

Status: The NWCONN structure opened to traffic in October 2010. The WSCONN structure is scheduled to be fully opened in July 2011.



Stage 4 - Final Realignment and Other Work

REGIONAL MEASURE 1 PROGRAM

Other Completed Projects

San Mateo-Hayward Bridge-Widening Project

Project Status: Completed 2003

This project expanded the low-rise concrete trestle section of the San Mateo-Hayward Bridge to allow for three lanes in each direction to match the existing configuration of the high-rise steel section of the bridge.



Widening of the San Mateo-Hayward Bridge Trestle on Left

Richmond-San Rafael Bridge Rehabilitation Projects

Project Status: Completed 2006

Two major rehabilitation projects for the Richmond-San Rafael Bridge were funded and completed: (1) replacement of the western concrete approach trestle and ship-collision protection fender system; and (2) rehabilitation of deck joints and resurfacing of the bridge deck.

In 2005, along with the seismic retrofit of the bridge, the trestle and fender replacement work was completed as part of the same project. Under a separate contract in 2006, the bridge was resurfaced with a polyester concrete overlay along with the repair of numerous deck joints.



New Richmond-San Rafael Bridge West Approach Trestle under Construction

Richmond Parkway Construction Project

Project Status: Completed 2001

The final connections to the Richmond Parkway from Interstate 580 near the Richmond-San Rafael Bridge were completed in May 2001.

New Alfred Zampa Memorial (Carquinez) Bridge Project

Project Status: Completed 2003



New Alfred Zampa Memorial (Carquinez) Bridge Soon after Opening to Traffic, with Crockett Interchange Still under Construction

The new western span of the Carquinez Bridge, which replaced the original 1927 span, is a twin-towered suspension bridge with three mixed-flow lanes, a new carpool lane, shoulders and a bicycle/pedestrian pathway.

Benicia-Martinez Bridge Project

Project Status: Completed 2009



Benicia-Martinez Bridge Bicycle/Pedestrian Pathway Opened to the Public in August 2009

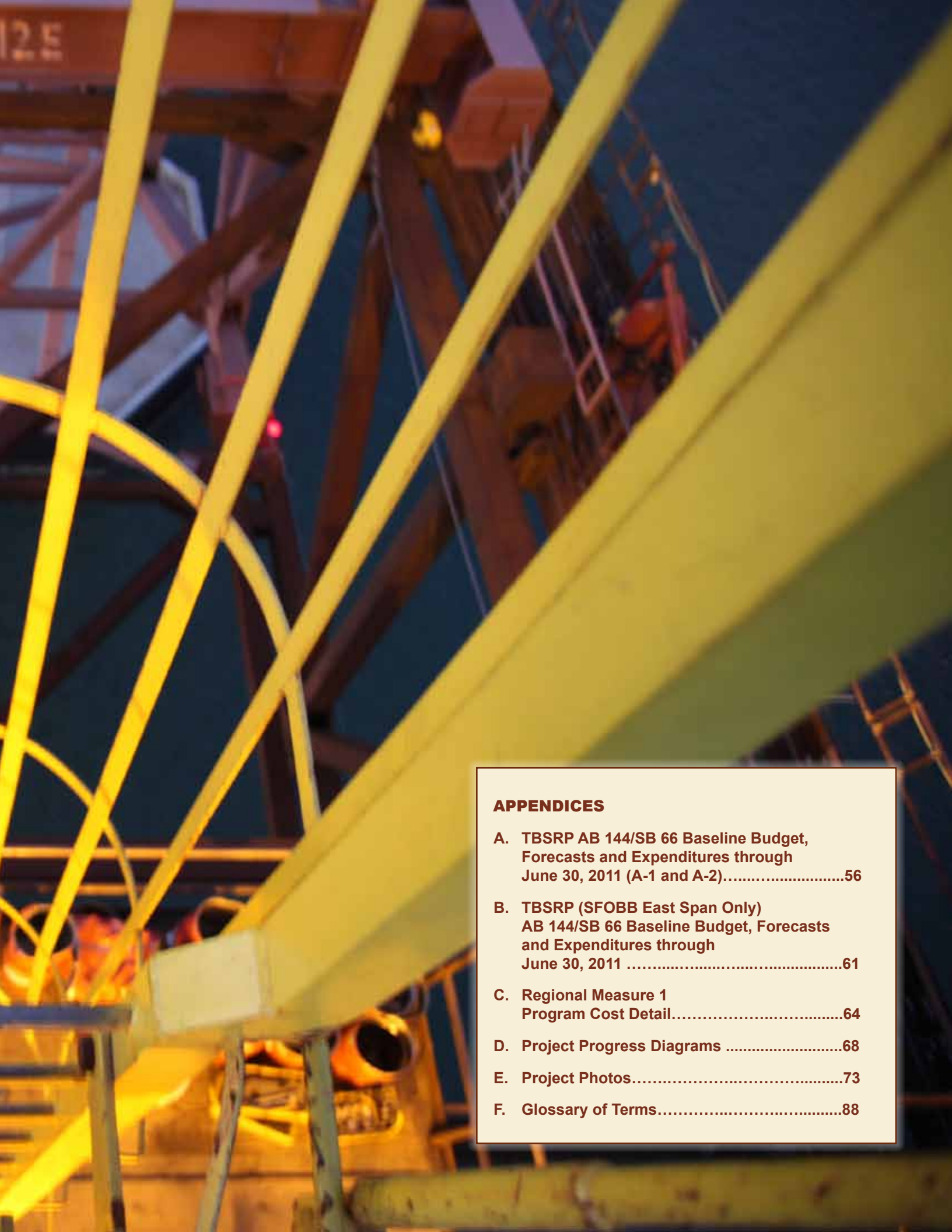
A two-year project to rehabilitate and reconfigure the original Benicia-Martinez Bridge began shortly after the opening of the new Congressman George Miller Bridge. The existing 1.2-mile roadway surface on the steel deck truss bridge was modified to carry four lanes of southbound traffic (one more than before)—with shoulders on both sides—plus a bicycle/pedestrian path on the west side of the span that connects to Park Road in Benicia and to Marina Vista Boulevard in Martinez. Reconstruction of the east side of the bridge and approaches was completed in August 2008. Reconstruction of the west side of the bridge and its approaches and construction of the bicycle/pedestrian pathway were completed in August 2009.

Bayfront Expressway (State Route 84) Widening Project

Project Status: Completed 2004

This project expanded and improved the roadway from the Dumbarton Bridge touchdown to the US 101/ Marsh Road interchange by adding additional lanes and turn pockets and improving bicycle/pedestrian access in the area.





APPENDICES

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Appendix A-1: TBSRP AB 144/SB 66 Baseline Budget, Forecasts and Expenditures through June 30, 2011 (\$ Millions)

Contract a	AB 144 / SB 66 Budget (07/2005) c	Approved Changes d	Current Approved Budget (06/2011) e = c + d	Cost to Date (06/2011) f	Cost Forecast (06/2011) g	At- Completion Variance h = g - e
SFOBB East Span Replacement Project						
Capital Outlay Support	959.3	218.0	1,177.3	965.5	1,275.8	98.5
Capital Outlay Construction	4,492.2	589.4	5,081.6	3,919.3	5,164.4	82.8
Other Budgeted Capital	35.1	(3.3)	31.8	0.7	7.7	(24.1)
Total	5,486.6	804.1	6,290.7	4,885.5	6,447.9	157.2
SFOBB West Approach Replacement						
Capital Outlay Support	120.0	(2.0)	118.0	118.3	118.5	0.5
Capital Outlay Construction	309.0	41.7	350.7	329.6	338.1	(12.6)
Total	429.0	39.7	468.7	447.9	456.6	(12.1)
SFOBB West Span Retrofit						
Capital Outlay Support	75.0	(0.2)	74.8	74.9	74.8	-
Capital Outlay Construction	232.9	(5.5)	227.4	227.4	227.4	-
Total	307.9	(5.7)	302.2	302.3	302.2	-
Richmond-San Rafael Bridge Retrofit						
Capital Outlay Support	134.0	(7.0)	127.0	126.8	127.0	-
Capital Outlay Construction	780.0	(90.5)	689.5	667.5	689.5	-
Total	914.0	(97.5)	816.5	794.3	816.5	-
Benicia-Martinez Bridge Retrofit						
Capital Outlay Support	38.1	-	38.1	38.1	38.1	-
Capital Outlay Construction	139.7	-	139.7	139.7	139.7	-
Total	177.8	-	177.8	177.8	177.8	-
Carquinez Bridge Retrofit						
Capital Outlay Support	28.7	0.1	28.8	28.8	28.8	-
Capital Outlay Construction	85.5	(0.1)	85.4	85.4	85.4	-
Total	114.2	-	114.2	114.2	114.2	-
San Mateo-Hayward Retrofit						
Capital Outlay Support	28.1	-	28.1	28.1	28.1	-
Capital Outlay Construction	135.4	(0.1)	135.3	135.3	135.3	-
Total	163.5	(0.1)	163.4	163.4	163.4	-
Vincent Thomas Bridge Retrofit (Los Angeles)						
Capital Outlay Support	16.4	-	16.4	16.4	16.4	-
Capital Outlay Construction	42.1	(0.1)	42.0	42.0	42.0	-
Total	58.5	(0.1)	58.4	58.4	58.4	-
San Diego-Coronado Bridge Retrofit						
Capital Outlay Support	33.5	(0.3)	33.2	33.2	33.2	-
Capital Outlay Construction	70.0	(0.6)	69.4	69.4	69.4	-
Total	103.5	(0.9)	102.6	102.6	102.6	-

Appendix A-1: TBSRP AB 144/SB 66 Baseline Budget, Forecasts and Expenditures through June 30, 2011 (\$ Millions) Cont.

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (06/2011)	Cost to Date (06/2011)	Cost Forecast (06/2011)	At-Completion Variance
a	c	d	e = c + d	f	g	h = g - e
Antioch Bridge						
Capital Outlay Support	-	31.0	31.0	13.6	34.7	3.7
Capital Outlay Support by BATA				6.2		
Capital Outlay Construction	-	70.0	70.0	25.6	56.9	(13.1)
Total	-	101.0	101.0	45.4	91.6	(9.4)
Dumbarton Bridge						
Capital Outlay Support	-	56.0	56.0	21.0	57.2	1.2
Capital Outlay Support by BATA				6.0		
Capital Outlay Construction	-	92.7	92.7	13.2	88.8	(3.9)
Total	-	148.7	148.7	40.2	146.0	(2.7)
Subtotal Capital Outlay Support	1,433.1	295.6	1,728.7	1,476.9	1,832.6	103.9
Subtotal Capital Outlay	6,286.8	696.9	6,983.7	5,654.4	7,036.9	53.2
Subtotal Other Budgeted Capital	35.1	(3.3)	31.8	0.7	7.7	(24.1)
Miscellaneous Program Costs	30.0	-	30.0	25.5	30.0	-
Subtotal Toll Bridge Seismic Retrofit Program	7,785.0	989.2	8,774.2	7,157.5	8,907.2	133.0
Net Programmatic Risks*	-	-	-	-	66.9	66.9
Program Contingency	900.0	(592.2)	307.8	-	107.9	(199.9)
Total Toll Bridge Seismic Retrofit Program ¹	8,685.0	397.0	9,082.0	7,157.5	9,082.0	-

¹ Figures may not sum up to totals due to rounding effects.

Appendix A-2: TBSRP AB 144/SB 66 Baseline Budget, Forecasts and Expenditures through June 30, 2011 (\$ Millions)

Bridge	AB 144 Baseline Budget	TBPOC Current Approved Budget	Expenditures to date and Encumbrances as of June 2011 see Note (1)	Estimated costs not yet spent or Encumbered as of June 2011	Total Forecast as of June 2011
a	b	c	d	e	f = d + e
Other Completed Projects					
Capital Outlay Support	144.9	144.6	144.6	-	144.6
Capital Outlay	472.6	471.9	472.6	(0.8)	471.8
Total	617.5	616.5	617.2	(0.8)	616.4
Richmond-San Rafael					
Capital Outlay Support	134.0	127.0	126.8	0.2	127.0
Capital Outlay	698.0	689.5	667.8	21.7	689.5
Project Reserves	82.0	-	-	-	-
Total	914.0	816.5	794.6	21.9	816.5
West Span Retrofit					
Capital Outlay Support	75.0	74.8	74.8	-	74.8
Capital Outlay	232.9	227.4	232.9	(5.5)	227.4
Total	307.9	302.2	307.7	(5.5)	302.2
West Approach					
Capital Outlay Support	120.0	118.0	118.2	0.3	118.5
Capital Outlay	309.0	350.7	345.7	(7.6)	338.1
Total	429.0	468.7	463.9	(7.3)	456.6
SFOBB East Span - Skyway					
Capital Outlay Support	197.0	181.2	181.2	-	181.2
Capital Outlay	1,293.0	1,254.1	1,345.7	(100.5)	1,245.2
Total	1,490.0	1,435.3	1,526.9	(100.5)	1,426.4
SFOBB East Span - SAS - Superstructure					
Capital Outlay Support	214.6	375.5	331.5	144.7	476.2
Capital Outlay	1,753.7	2,046.8	1,532.6	546.3	2,078.9
Total	1,968.3	2,422.3	1,864.1	691.0	2,555.1
SFOBB East Span - SAS - Foundations					
Capital Outlay Support	62.5	37.6	37.6	-	37.6
Capital Outlay	339.9	307.3	309.3	(4.3)	305.0
Total	402.4	344.9	346.9	(4.3)	342.6
Small YBI Projects					
Capital Outlay Support	10.6	10.6	10.2	0.4	10.6
Capital Outlay	15.6	15.6	15.5	0.2	15.7
Total	26.2	26.2	25.7	0.6	26.3
YBI Detour					
Capital Outlay Support	29.5	90.7	87.4	0.8	88.2
Capital Outlay	131.9	492.8	492.7	(9.9)	482.8
Total	161.4	583.5	580.1	(9.1)	571.0
YBI- Transition Structures					
Capital Outlay Support	78.7	106.4	50.2	66.9	117.1
Capital Outlay	299.4	247.8	130.2	174.9	305.1
Total	378.1	354.2	180.4	241.8	422.2

Appendix A-2: TBSRP AB 144/SB 66 Baseline Budget, Forecasts and Expenditures through June 30, 2011 (\$ Millions) Cont.

Contract	AB 144 Baseline Budget	TBPOC Current Approved Budget	Expenditures to date and Encumbrances as of June 2011 see Note (1)	Estimated Costs not yet spent or Encumbered as of June 2011	Total Forecast as of June 2011
a	b	c	d	e	f = d + e
Oakland Touchdown					
Capital Outlay Support	74.4	108.9	86.0	31.2	117.2
Capital Outlay	283.8	339.0	216.0	117.9	333.9
Total	358.2	447.9	302.0	149.1	451.1
East Span Other Small Projects					
Capital Outlay Support	212.3	206.5	197.9	8.7	206.6
Capital Outlay	170.8	170.8	118.9	35.7	154.6
Total	383.1	377.3	316.8	44.4	361.2
Existing Bridge Demolition					
Capital Outlay Support	79.7	59.9	0.7	40.4	41.1
Capital Outlay	239.2	239.1	-	250.8	250.8
Total	318.9	299.0	0.7	291.2	291.9
Antioch Bridge					
Capital Outlay Support	-	31.0	13.8	14.7	28.5
Capital Outlay Support by BATA			6.2	-	6.2
Capital Outlay	-	70.0	47.4	9.5	56.9
Total	-	101.0	67.4	24.2	91.6
Dumbarton Bridge					
Capital Outlay Support	-	56.0	21.3	29.9	51.2
Capital Outlay Support by BATA			6.0	-	6.0
Capital Outlay	-	92.7	55.5	33.3	88.8
Total	-	148.7	82.8	63.2	146.0
Miscellaneous Program Costs	30.0	30.0	25.5	4.5	30.0
Total Capital Outlay Support	1,463.2	1,758.7	1,519.9	342.7	1,862.6
Total Capital Outlay	6,321.8	7,015.5	5,982.8	1,061.8	7,044.6
Program Total ¹	7,785.0	8,774.2	7,502.7	1,404.5	8,907.2

(1). Funds allocated to project or contract for Capital Outlay and Support needs includes Capital Outlay Support total allocation for FY 06/07.

(2). BSA provided a distribution of program contingency in December 2004 based in Bechtel Infrastructure Corporation input.

This Column is subject to revision upon completion of Department's risk assessment update.

(3) Total Capital Outlay Support includes program indirect costs.

¹ Figures may not sum up to totals due to rounding effects.

Appendix B: TBSRP (SFOBB East Span Only) AB 144/SB 66 Baseline Budget, Forecasts and Expenditures through June 30, 2011 (\$ Millions)

Contract a	AB 144 / SB 66 Budget (07/2005) c	Approved Changes d	Current Approved Budget (06/2011) e = c + d	Cost to Date (06/2011) f	Cost Forecast (06/2011) g	At- Completion Variance h = g - e
San Francisco-Oakland Bay Bridge East Span Replacement Project						
East Span - SAS Superstructure						
Capital Outlay Support	214.6	160.9	375.5	317.9	476.2	100.7
Capital Outlay Construction	1,753.7	293.1	2,046.8	1,530.8	2,078.9	32.1
Total	1,968.3	454.0	2,422.3	1,848.7	2,555.1	132.8
SAS W2 Foundations						
Capital Outlay Support	10.0	(0.8)	9.2	9.2	9.2	-
Capital Outlay Construction	26.4	-	26.4	26.5	26.4	-
Total	36.4	(0.8)	35.6	35.7	35.6	-
YBI South/South Detour						
Capital Outlay Support	29.4	61.3	90.7	86.9	88.2	(2.5)
Capital Outlay Construction	131.9	360.9	492.8	465.8	482.8	(10.0)
Total	161.3	422.2	583.5	552.7	571.0	(12.5)
East Span - Skyway						
Capital Outlay Support	197.0	(15.8)	181.2	181.2	181.2	-
Capital Outlay Construction	1,293.0	(38.9)	1,254.1	1,237.1	1,245.2	(8.9)
Total	1,490.0	(54.7)	1,435.3	1,418.3	1,426.4	(8.9)
East Span - SAS E2/T1 Foundations						
Capital Outlay Support	52.5	(24.1)	28.4	28.4	28.4	-
Capital Outlay Construction	313.5	(32.6)	280.9	274.8	278.6	(2.3)
Total	366.0	(56.7)	309.3	303.2	307.0	(2.3)
YBI Transition Structures (see notes below)						
Capital Outlay Support	78.7	27.7	106.4	47.9	117.1	10.7
Capital Outlay Construction	299.3	(51.5)	247.8	43.0	305.1	57.3
Total	378.0	(23.8)	354.2	90.9	422.2	68.0
* YBI- Transition Structures						
Capital Outlay Support			16.4	16.4	16.5	0.1
Capital Outlay Construction			-	-	-	-
Total			16.4	16.4	16.5	0.1
* YBI- Transition Structures Contract No. 1						
Capital Outlay Support			57.0	23.4	67.1	10.1
Capital Outlay Construction			185.5	43.0	222.4	36.9
Total			242.5	66.4	289.5	47.0
* YBI- Transition Structures Contract No. 2						
Capital Outlay Support			32.0	8.1	32.5	0.5
Capital Outlay Construction			59.0	-	79.4	20.4
Total			91.0	8.1	111.9	20.9
* YBI- Transition Structures Contract No. 3 Landscape						
Capital Outlay Support			1.0	-	1.0	-
Capital Outlay Construction			3.3	-	3.3	-
Total			4.3	-	4.3	-

Appendix B: TBSRP (SFOBB East Span Only) AB 144/SB 66 Baseline Budget, Forecasts and Expenditures through June 30, 2011 (\$ Millions) Cont.

Contract a	AB 144 / SB 66 Budget (07/2005) c	Approved Changes d	Current Approved Budget (06/2011) e = c + d	Cost to Date (06/2011) f	Cost Forecast (06/2011) g	At- Completion Variance h = g - e
Oakland Touchdown (see notes below)						
Capital Outlay Support	74.4	34.5	108.9	85.2	117.2	8.3
Capital Outlay Construction	283.8	55.2	339.0	209.4	333.9	(5.1)
Total	358.2	89.7	447.9	294.6	451.1	3.2
*OTD Prior-to-Split Costs						
Capital Outlay Support			21.7	20.1	21.7	-
Capital Outlay Construction			-	-	-	-
Total			21.7	20.1	21.7	-
*OTD Submarine Cable						
Capital Outlay Support			0.9	0.9	0.9	-
Capital Outlay Construction			9.6	6.5	9.6	-
Total			10.5	7.4	10.5	-
*OTD No.1 (Westbound)						
Capital Outlay Support			47.3	50.9	51.7	4.4
Capital Outlay Construction			212.0	202.9	203.3	(8.7)
Total			259.3	253.8	255.0	(4.3)
*OTD No.2 (Eastbound)						
Capital Outlay Support			22.5	10.8	26.4	3.9
Capital Outlay Construction			62.0	-	58.6	(3.4)
Total			84.5	10.8	85.0	0.5
* Oakland Detour						
Capital Outlay Support			15.0	1.8	15.0	-
Capital Outlay Construction			51.0	-	58.0	7.0
Total			66.0	1.8	73.0	7.0
*OTD Electrical Systems						
Capital Outlay Support			1.5	0.8	1.5	-
Capital Outlay Construction			4.4	-	4.4	-
Total			5.9	0.8	5.9	-
Existing Bridge Demolition						
Capital Outlay Support	79.7	(19.8)	59.9	0.7	41.1	(18.8)
Capital Outlay Construction	239.2	(0.1)	239.1	-	250.8	11.7
Total	318.9	(19.9)	299.0	0.7	291.9	(7.1)
YBI/SAS Archeology						
Capital Outlay Support	1.1	-	1.1	1.1	1.1	-
Capital Outlay Construction	1.1	-	1.1	1.1	1.1	-
Total	2.2	-	2.2	2.2	2.2	-
YBI - USCG Road Relations						
Capital Outlay Support	3.0	-	3.0	2.7	3.0	-
Capital Outlay Construction	3.0	-	3.0	2.8	3.0	-
Total	6.0	-	6.0	5.5	6.0	-
YBI - Substation and Viaduct						
Capital Outlay Support	6.5	-	6.5	6.4	6.5	-
Capital Outlay Construction	11.6	-	11.6	11.3	11.6	-
Total	18.1	-	18.1	17.7	18.1	-

Appendix B: TBSRP (SFOBB East Span Only) AB 144/SB 66 Baseline Budget, Forecasts and Expenditures through June 30, 2011 (\$ Millions) Cont.

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (06/2011)	Cost to Date (06/2011)	Cost Forecast (06/2011)	At-Completion Variance
a	c	d	e = c + d	f	g	h = g - e
Oakland Geofill						
Capital Outlay Support	2.5	-	2.5	2.5	2.5	-
Capital Outlay Construction	8.2	-	8.2	8.2	8.2	-
Total	10.7	-	10.7	10.7	10.7	-
Pile Installation Demonstration Project						
Capital Outlay Support	1.8	-	1.8	1.8	1.8	-
Capital Outlay Construction	9.3	-	9.3	9.2	9.3	-
Total	11.1	-	11.1	11.0	11.1	-
Stormwater Treatment Measures						
Capital Outlay Support	6.0	2.2	8.2	8.2	8.2	-
Capital Outlay Construction	15.0	3.3	18.3	16.8	18.3	-
Total	21.0	5.5	26.5	25.0	26.5	-
Right-of-Way and Environmental Mitigation						
Capital Outlay Support	-	-	-	-	-	-
Capital Outlay & Right-of-Way	72.4	-	72.4	51.7	80.4	8.0
Total	72.4	-	72.4	51.7	80.4	8.0
Sunk Cost - Existing East Span Retrofit						
Capital Outlay Support	39.5	-	39.5	39.5	39.5	-
Capital Outlay Construction	30.8	-	30.8	30.8	30.8	-
Total	70.3	-	70.3	70.3	70.3	-
Other Capital Outlay Support						
Environmental Phase	97.7	-	97.7	97.8	97.7	-
Pre-Split Project Expenditures	44.9	-	44.9	44.9	44.9	-
Non-project Specific Costs	20.0	(8.0)	12.0	3.2	12.0	-
Total	162.6	(8.0)	154.6	145.9	154.6	-
Subtotal Capital Outlay Support	959.3	218.0	1,177.3	965.5	1,275.8	98.5
Subtotal Capital Outlay Construction	4,492.2	589.4	5,081.6	3,919.3	5,164.4	82.8
Other Budgeted Capital	35.1	(3.3)	31.8	0.7	7.7	(24.1)
Total SFOBB East Span Replacement Project ¹	5,486.6	804.1	6,290.7	4,885.5	6,447.9	157.2

¹ Figures may not sum up to totals due to rounding effects.

Appendix C: Regional Measure 1 Program Cost Detail (\$ Millions)

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (06/2011)	Cost to Date (06/2011)	Cost Forecast (06/2011)	At- Completion Variance
a	c	d	e = c + d	f	g	h = g - e
New Benicia-Martinez Bridge Project						
New Bridge						
Capital Outlay Support						
BATA Funding	84.9	7.2	92.1	91.9	92.1	-
Non-Bata Funding	-	0.1	0.1	0.1	0.1	-
Subtotal	84.9	7.3	92.2	92.0	92.2	-
Capital Outlay Construction			-			-
BATA Funding	661.9	94.6	756.5	753.7	756.5	-
Non-Bata Funding	10.1	-	10.1	10.1	10.1	-
Subtotal	672.0	94.6	766.6	763.8	766.6	-
Total	756.9	101.9	858.8	855.8	858.8	-
I-680/I-780 Interchange Reconstruction						
Capital Outlay Support						
BATA Funding	24.9	5.2	30.1	30.1	30.1	-
Non-Bata Funding	1.4	5.2	6.6	6.3	6.6	-
Subtotal	26.3	10.4	36.7	36.4	36.7	-
Capital Outlay Construction						
BATA Funding	54.7	26.9	81.6	77.1	81.6	-
Non-Bata Funding	21.6	-	21.6	21.7	21.7	0.1
Subtotal	76.3	26.9	103.2	98.8	103.3	0.1
Total	102.6	37.3	139.9	135.2	140.0	0.1
I-680/Marina Vista Interchange Reconstruction						
Capital Outlay Support	18.3	1.9	20.2	20.2	20.2	-
Capital Outlay Construction	51.5	4.9	56.4	56.1	56.4	-
Total	69.8	6.8	76.6	76.3	76.6	-
New Toll Plaza and Administration Building						
Capital Outlay Support	11.9	3.8	15.7	15.7	15.7	-
Capital Outlay Construction	24.3	2.0	26.3	25.1	26.3	-
Total	36.2	5.8	42.0	40.8	42.0	-
Existing Bridge & Interchange Modifications						
Capital Outlay Support						
BATA Funding	4.3	13.7	18.0	18.0	18.0	-
Non-Bata Funding	-	0.9	0.9	0.8	0.9	-
Subtotal	4.3	14.6	18.9	18.8	18.9	-
Capital Outlay Construction						
BATA Funding	17.2	32.8	50.0	37.2	50.0	-
Non-Bata Funding	-	9.5	9.5	-	9.5	-
Subtotal	17.2	42.3	59.5	37.2	59.5	-
Total	21.5	56.9	78.4	56.0	78.4	-
Other Contracts						
Capital Outlay Support	11.4	(0.9)	10.5	9.5	10.5	-
Capital Outlay Construction	20.3	3.3	23.6	18.5	23.6	-
Capital Outlay Right-of-Way	20.4	(0.1)	20.3	17.0	20.3	-
Total	52.1	2.3	54.4	45.0	54.4	-

Appendix C: Regional Measure 1 Program Cost Detail (\$ Millions) Cont.

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (06/2011)	Cost to Date (06/2011)	Cost Forecast (06/2011)	At- Completion Variance
a	c	d	e = c + d	f	g	h = g - e
New Benicia-Martinez Bridge Project continued...						
Subtotal BATA Capital Outlay Support	155.7	30.9	186.6	185.4	186.6	-
Subtotal BATA Capital Outlay Construction	829.9	164.5	994.4	967.7	994.4	-
Subtotal Capital Outlay Right-of-Way	20.4	(0.1)	20.3	17.0	20.3	-
Subtotal Non-BATA Capital Outlay Support	1.4	6.2	7.6	7.2	7.6	-
Subtotal Non-BATA Capital Outlay Construction	31.7	9.5	41.2	31.8	41.3	0.1
Project Reserves	20.8	1.6	22.4	-	22.3	(0.1)
Total New Benicia-Martinez Bridge Project						
	1,059.9	212.6	1,272.5	1,209.1	1,272.5	-
Notes:	Includes EA's 00601_00603_00605_00606_00608_00609_0060A_0060C_0060E_0060F_0060G_0060H_ and all Project Right-of-Way					
Carquinez Bridge Replacement Project						
New Bridge						
Capital Outlay Support	60.5	(0.3)	60.2	60.2	60.2	-
Capital Outlay Construction	253.3	2.7	256.0	255.9	256.0	-
Total	313.8	2.4	316.2	316.1	316.2	-
Crockett Interchange Reconstruction						
Capital Outlay Support	32.0	(0.1)	31.9	31.9	31.9	-
Capital Outlay Construction	73.9	(1.9)	72.0	71.9	72.0	-
Total	105.9	(2.0)	103.9	103.8	103.9	-
Existing 1927 Bridge Demolition						
Capital Outlay Support	16.1	(0.3)	15.8	15.7	15.8	-
Capital Outlay Construction	35.2	-	35.2	34.8	35.2	-
Total	51.3	(0.3)	51.0	50.5	51.0	-
Other Contracts						
Capital Outlay Support	15.8	0.9	16.7	16.4	16.7	-
Capital Outlay Construction	18.8	(1.2)	17.6	16.4	17.6	-
Capital Outlay Right-of-Way	10.5	(0.1)	10.4	9.9	10.4	-
Total	45.1	(0.4)	44.7	42.7	44.7	-
Subtotal BATA Capital Outlay Support						
	124.4	0.2	124.6	124.2	124.6	-
Subtotal BATA Capital Outlay Construction						
	381.2	(0.4)	380.8	379.0	380.8	-
Subtotal Capital Outlay Right-of-Way						
	10.5	(0.1)	10.4	9.9	10.4	-
Project Reserves						
	12.1	(9.7)	2.4	-	2.4	-
Total Carquinez Bridge Replacement Project ¹						
	528.2	(10.0)	518.2	513.1	518.2	-
Notes						
Other Contracts include EA's 01301_01302_01303_01304_01305_01306_01307_01308_01309_0130A_0130C_0130D_0130F_0130G_0130H_0130J_00453_00493_04700_00607_2A270_ and 29920_ and all Project Right-of-Way						

¹ Figures may not sum up to totals due to rounding effects.

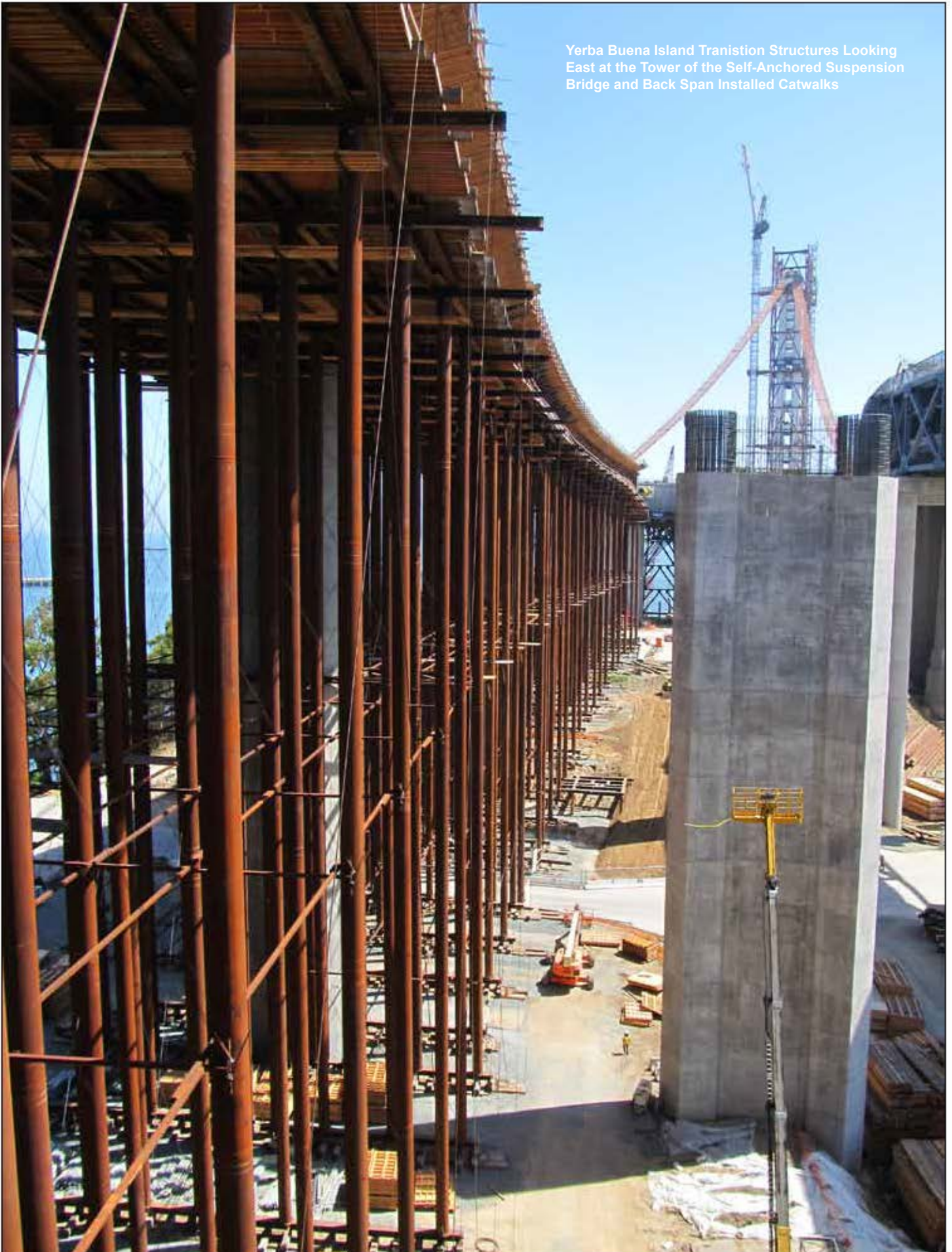
Appendix C: Regional Measure 1 Program Cost Detail (\$ Millions) Cont.

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (06/2011)	Cost to Date (06/2011)	Cost Forecast (06/2011)	At- Completion Variance
a	c	d	e = c + d	f	g	h = g - e
Richmond-San Rafael Bridge Trestle. Fender, and Deck Joint Rehabilitation						
Capital Outlay Support						
BATA Funding	2.2	(0.8)	1.4	1.4	1.4	-
Non-BATA Funding	8.6	1.8	10.4	10.4	10.4	-
Subtotal	10.8	1.0	11.8	11.8	11.8	-
Capital Outlay Construction						
BATA Funding	40.2	(6.8)	33.4	33.3	33.4	-
Non-BATA Funding	51.1	-	51.1	51.1	51.1	-
Subtotal	91.3	(6.8)	84.5	84.4	84.5	-
Project Reserves	-	0.8	0.8	-	0.8	-
Total	102.1	(5.0)	97.1	96.2	97.1	-
Richmond-San Rafael Bridge Deck Overlay Rehabilitation						
Capital Outlay Support						
BATA Funding	4.0	(0.7)	3.3	3.3	3.3	-
Non-BATA Funding	4.0	(4.0)	-	-	-	-
Subtotal	8.0	(4.7)	3.3	3.3	3.3	-
Capital Outlay Construction	16.9	(0.6)	16.3	16.3	16.3	-
Project Reserves	0.1	0.3	0.4	-	0.4	-
Total	25.0	(5.0)	20.0	19.6	20.0	-
Richmond Parkway Project (RM 1 Share Only)						
Capital Outlay Support	-	-	-	-	-	-
Capital Outlay Construction	5.9	-	5.9	4.3	5.9	-
Total	5.9	-	5.9	4.3	5.9	-
San Mateo-Hayward Bridge Widening						
Capital Outlay Support	34.6	(0.5)	34.1	34.1	34.1	-
Capital Outlay Construction	180.2	(6.1)	174.1	174.1	174.1	-
Capital Outlay Right-of-Way	1.5	(0.9)	0.6	0.5	0.6	-
Project Reserves	1.5	(0.5)	1.0	-	1.0	-
Total	217.8	(8.0)	209.8	208.7	209.8	-
I-880/SR-92 Interchange Reconstruction						
Capital Outlay Support	28.8	35.8	64.6	59.2	64.6	-
Capital Outlay Construction						
BATA Funding	85.2	68.4	153.6	130.7	153.6	-
Non-BATA Funding	9.6	-	9.6	-	9.6	-
Subtotal	94.8	68.4	163.2	130.7	163.2	-
Capital Outlay Right-of-Way	9.9	7.3	17.2	14.5	17.2	-
Project Reserves	0.3	(0.3)	-	-	-	-
Total	133.8	111.2	245.0	204.4	245.0	-
Bayfront Expressway Widening						
Capital Outlay Support	8.6	(0.2)	8.4	8.3	8.4	-
Capital Outlay Construction	26.5	(1.5)	25.0	24.9	25.0	-
Capital Outlay Right-of-Way	0.2	-	0.2	0.2	0.2	-
Project Reserves	0.8	(0.3)	0.5	-	0.5	-
Total	36.1	(2.0)	34.1	33.4	34.1	-

Appendix C: Regional Measure 1 Program Cost Detail (\$ Millions) Cont.

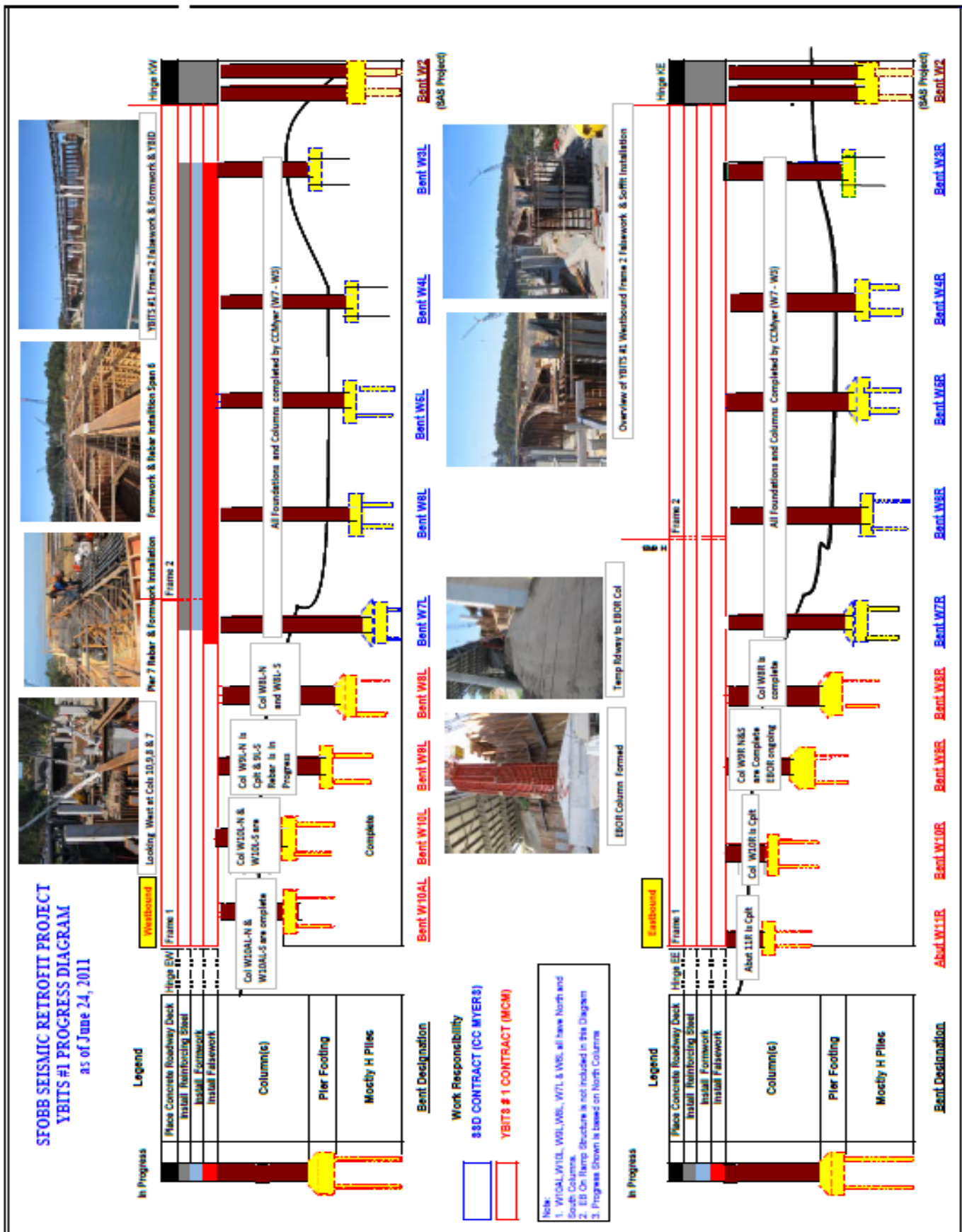
Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (06/2011)	Cost to Date (06/2011)	Cost Forecast (06/2011)	At- Completion Variance
a	c	d	e = c + d	f	g	h = g - e
US 101/University Avenue Interchange Modification						
Capital Outlay Support	-	-	-	-	-	-
Capital Outlay Construction	3.8	-	3.8	3.7	3.8	-
Total	3.8	-	3.8	3.7	3.8	-
Subtotal BATA Capital Outlay Support	358.3	64.7	423.0	415.9	423.0	-
Subtotal BATA Capital Outlay Construction	1,569.8	217.5	1,787.3	1,734.0	1,787.3	-
Subtotal Capital Outlay Right-of-Way	42.5	6.2	48.7	42.1	48.7	-
Subtotal Non-BATA Capital Outlay Support	14.0	4.0	18.0	17.6	18.0	-
Subtotal Non-BATA Capital Outlay Construction	92.4	9.5	101.9	82.9	102.0	0.1
Project Reserves	35.6	(8.1)	27.5	-	27.4	(0.1)
Total RM1 Program	2,112.6	293.8	2,406.4	2,292.5	2,406.4	-
Notes:						
1 Richmond-San Rafael Bridge Trestle, Fender, and Deck Joint Rehabilitation Includes Non-TBSRA Expenses for EA 0438U_ and 04157_						
2 San Mateo-Hayward Bridge Widening includes EA's 00305_,04501_,04503_,04504_,04504_,04505_,04506_,04507_,04508_,04509_,27740_,27790_,04860_						

Yerba Buena Island Transition Structures Looking East at the Tower of the Self-Anchored Suspension Bridge and Back Span Installed Catwalks



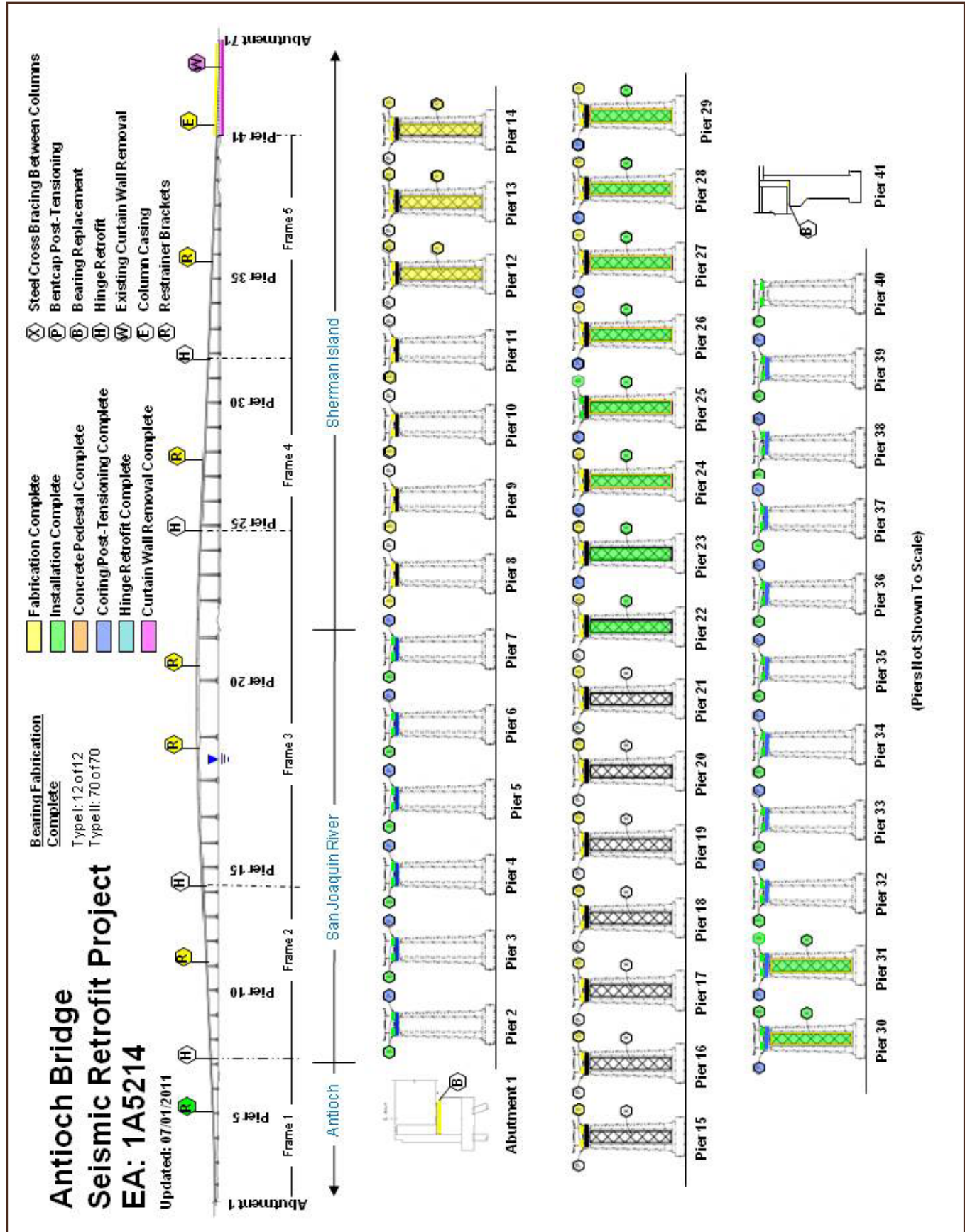
Appendix D: Progress Diagrams

Yerba Buena Island Transition Structures



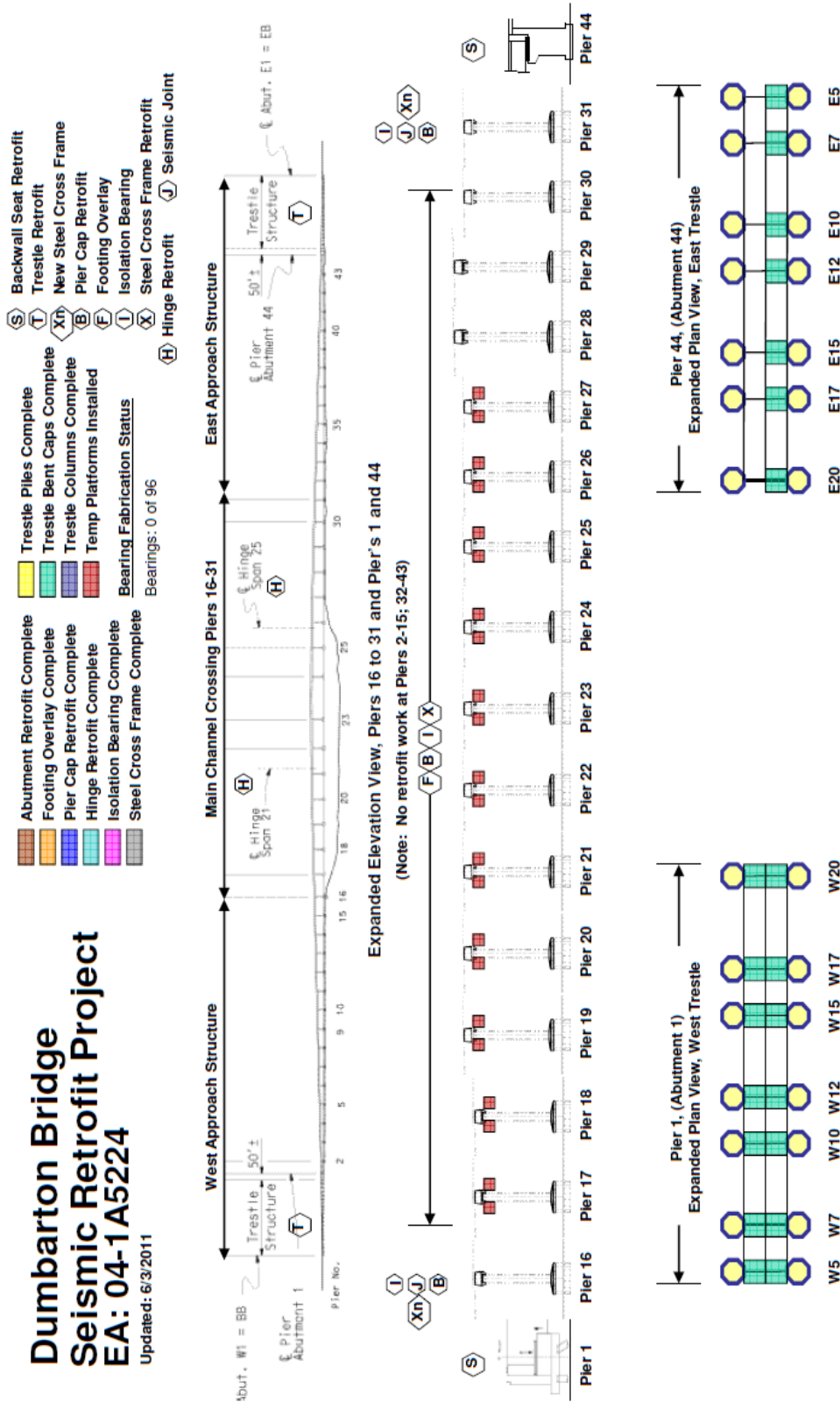
Appendix D: Progress Diagrams (cont.)

Antioch Bridge

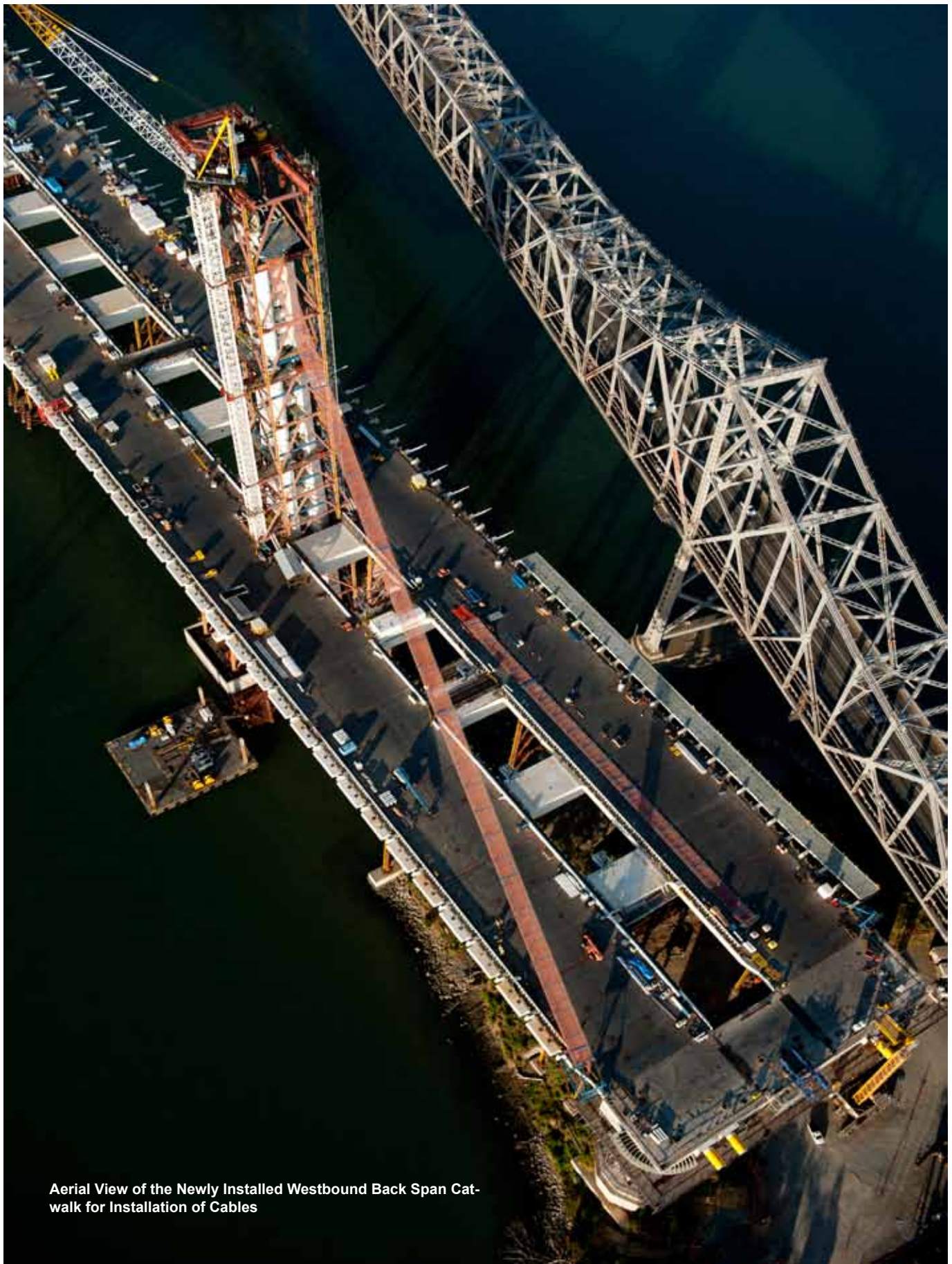


Appendix D: Progress Diagrams

Dumbarton Bridge



(Piers Not Shown To Scale)



Aerial View of the Newly Installed Westbound Back Span Catwalk for Installation of Cables





Project Photos

Appendix E: Project Progress Photographs

Self-Anchored Suspension Bridge Fabrication



Self-Anchored Suspension Bridge Roadway Box Being Inspected before Shipment



Self-Anchored Suspension Bridge Roadway Box 14 East Bay



Self-Anchored Suspension Bridge Bike Rails



Self-Anchored Suspension Bridge Lifting Attachments for Box Girders





Appendix E: Project Progress Photographs

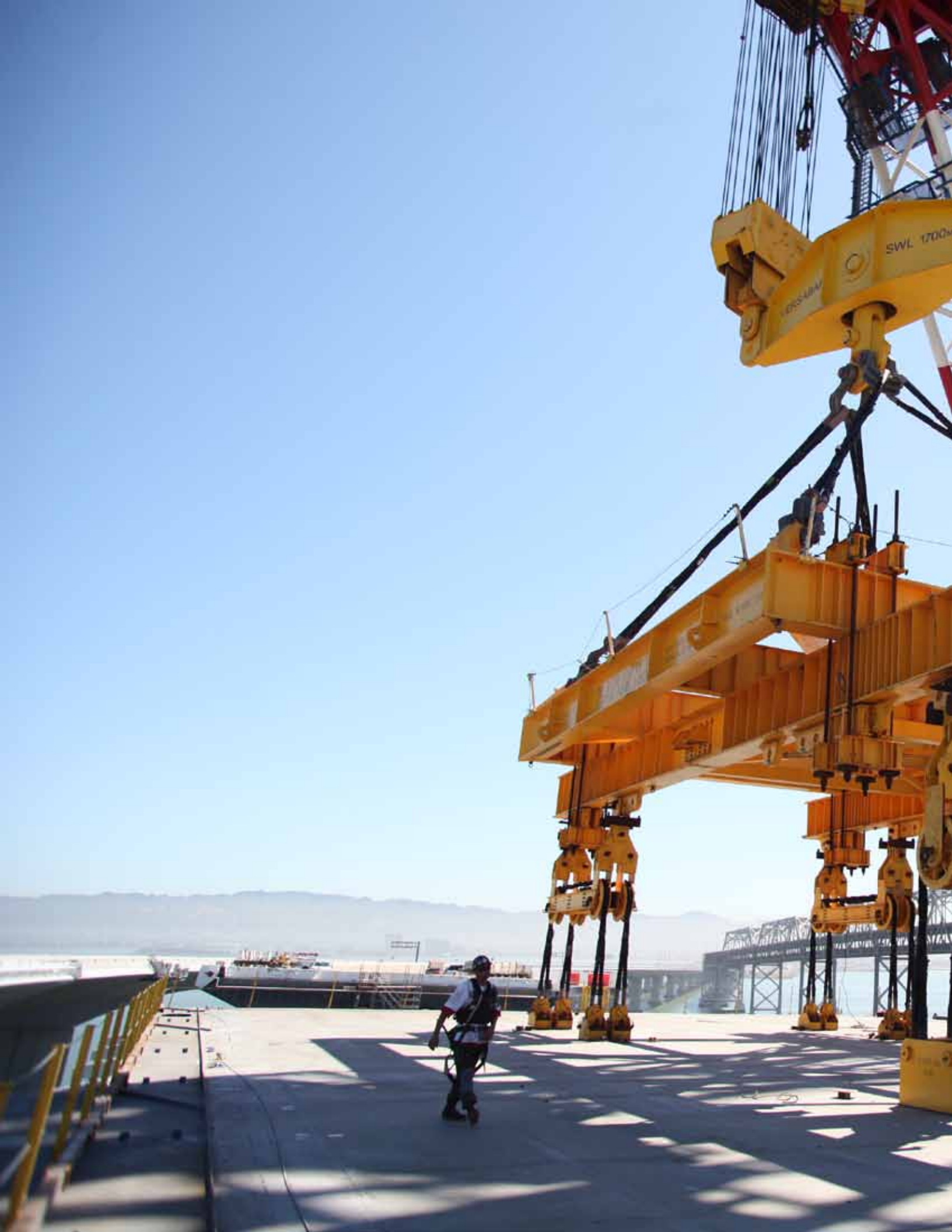
Self-Anchored Suspension Bridge Field Work



Cable Catwalk Installation for the Westbound Backspan



Self-Anchored Suspension Bridge Bike Path Installation in Progress





Appendix E: Project Progress Photographs

92/880 Interchange



Under Drain Installation in Progress along J-7 Line



WSCONN Bridge Construction in Progress



Simulation of SR 880 Looking South



SR-92 Eldridge Avenue Pedestrian Over-Crossing

Appendix E: Project Progress Photographs

Antioch Bridge



Antioch Bridge - Soil Samples from Seismic Monitoring Down Hole



Antioch Bridge - Painting of Cross Frame

Appendix E: Project Progress Photographs

Dumbarton Bridge



Dumbarton Bridge - Forming Pump Station Walls



Dumbarton Bridge - Welding of New Cross-Frame Connection Pier 17

Appendix E: Project Progress Photographs

Oakland Detour



Oakland Detour - Temporary Westbound Piles Being Prepared for Installation



Oakland Detour - Relocated Eastbound Temporary Detour



Aerial of the Newly Opened Eastbound Oakland Detour with the EBMUD Outfall Crossing Structure on the right, the Relocated Clear Channel Sign and the Westbound Oakland Detour under Construction

Appendix F: Glossary of Terms

Glossary of Terms

AB144/SB 66 BUDGET: The planned allocation of resources for the Toll Bridge Seismic Retrofit Program, or subordinate projects or contracts, as provided in Assembly Bill 144 and Senate Bill 66, signed into law by Governor Schwarzenegger on July 18, 2005 and September 29, 2005, respectively.

BATA BUDGET: The planned allocation of resources for the Regional Measure 1 Program, or subordinate projects or contracts as authorized by the Bay Area Toll Authority as of June 2005.

APPROVED CHANGES: For cost, changes to the AB144/SB 66 Budget or BATA Budget as approved by the Bay Area Toll Authority Commission. For schedule, changes to the AB 144/SB 66 Project Complete Baseline approved by the Toll Bridge Program Oversight Committee, or changes to the BATA Project Complete Baseline approved by the Bay Area Toll Authority Commission.

CURRENT APPROVED BUDGET: The sum of the AB144/SB66 Budget or BATA Budget and Approved Changes.

COST TO DATE: The actual expenditures incurred by the program, project or contract as of the month and year shown.

COST FORECAST: The current forecast of all of the costs that are projected to be expended so as to complete the given scope of the program, project, or contract.

AT COMPLETION VARIANCE or VARIANCE (cost): The mathematical difference between the Cost Forecast and the Current Approved Budget.

AB 144/SB 66 PROJECT COMPLETE BASELINE: The planned completion date for the Toll Bridge Seismic Retrofit Program or subordinate projects or contracts.

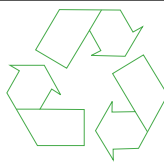
BATA PROJECT COMPLETE BASELINE: The planned completion date for the Regional Measure 1 Program or subordinate projects or contracts.

PROJECT COMPLETE CURRENT APPROVED SCHEDULE: The sum of the AB144/SB66 Project Complete Baseline or BATA Project Complete Baseline and Approved Changes.

PROJECT COMPLETE SCHEDULE FORECAST: The current projected date for the completion of the program, project, or contract.

SCHEDULE VARIANCE or VARIANCE (schedule): The mathematical difference expressed in months between the Project Complete Schedule Forecast and the Project Complete Current Approved Schedule.

% COMPLETE: % Complete is based on an evaluation of progress on the project, expenditures to date, and schedule.



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The information in this report is provided in accordance with California Government code Section 755. This document is one of a series of reports prepared for the Bay Area Toll Authority (BATA)/Metropolitan Transportation Commission (MTC) for the Toll Bridge Seismic Retrofit and Regional Measure 1 Programs. The contract value for the monitoring efforts, technical analysis, and field site works that contribute to these reports, as well as the report preparation and production is \$1,574,873.73.





07/08/2011 11:47

Self-Anchored Suspension Bridge - Back Span Catwalks Installed



Memorandum

TO: Toll Bridge Oversight Committee (TBPOC) **DATE:** July 27, 2011

FR: Dina Noel, Assistant Deputy Director Toll Bridge Program, CTC

RE: Agenda No. - 2c1
Item - YBITS No. 1 Contract Change Order No. 524-S1 – Oakland
Detour Westbound Bridge Widening Foundations

Recommendation:
APPROVAL

Cost:
\$1,177,002

Schedule Impacts:
None

Discussion:

YBITS No. 1 Contract Change Order No. 524-S1 **in the amount of \$1,177,002** shall provide for the construction of the reinforced concrete footings for the 8 bents and approach slab of the westbound bridge widening of the Oakland Detour. CCO No. 524-S0 was approved by the TBPOC at the May 5, 2011 meeting at a cost not to exceed \$3,500,000 for all foundation work associated with the westbound widening. The original CCO No. 524-S0 was subsequently issued at a cost of \$946,506 to provide for the installation of the steel piles for the footings. CCO No. 524-S1 will provide for the excavation, reinforcing steel, concrete, and backfill to complete the construction of the footings.

The total estimated final cost for CCO No. 524-S0 and CCO No. 524-S1 is \$2,123,508.

Risk Management:

The \$1,177,002 in funding being requested under this change order brings the total CCO 524 cost to \$2,123,508, which falls within the \$3,500,000 amount budgeted for this work, as approved by the TBPOC on May 5, 2011 and within the amount budgeted for this work under the approved Oakland Detour budget. As such, no risk management consideration is required.

Memorandum

Attachment(s):

1. Draft YBITS CCO 524-S1
2. Draft YBITS CCO 524-S1 Memo
3. YBITS1 CCO 524-S0 (History)

CONTRACT CHANGE ORDER

Change Requested by: Engineer

CCO: 524	Suppl. No. 1	Contract No. 04 - 0120S4	Road SF-80-12.7/13.2	FED. AID LOC.: NO FED AID
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To: M C M CONSTRUCTION INC

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. **NOTE: This change order is not effective until approved by the Engineer.**

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.) Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. This last percentage shown is the net accumulated increase or decrease from the original quantity in the Engineer's Estimate.

Construct the following items of the work for the foundations for Bents E31 through E38 and Abutment E39 of the Westbound Structure of the Oakland Touchdown Detour as shown on Sheets Number 3 through 48 of Change Order 524 Supplement 0 as follows:

1. Structure Excavation (including shoring)
2. Structure Backfill
3. Structure Concrete (Bridge Footing)
4. Bar Reinforcing Steel (Bridge Footing)
5. Drill and bond dowels

Extra Work at Force Account:

For any excess material that will be disposed of off-site, in accordance with Section 10-1.45 EARTHWORK, provide labor, equipment and materials to load, transport and dispose of earth material from the excavations for the work at the Oakland Touchdown Detour, as directed by the Engineer.

This work will be paid for in accordance with Section 5-1.17 "Force Account Payment" of the Special Provisions and Section 4-1.03D "Extra Work" of the Standard Specifications.

Estimated cost of Extra Work at Force Account\$250,000.00

Extra Work at Lump Sum:

For this work, the Contractor shall be compensated the agreed lump sums as listed below:

- 1 Structure Excavation (including shoring) Agreed Lump Sum = \$160,077.00
- 2 Structure Backfill Agreed Lump Sum = \$100,850.00
- 3 Structural Concrete (Bridge Footing) Agreed Lump Sum = \$346,262.00
- 4 Bar Reinforcing Steel (Bridge Footing) Agreed Lump Sum = \$308,037.00
- 5 Drill and Bond Dowels Agreed Lump Sum = \$11,776.00

Except as defined herein, these lump sums constitute full compensation, including all markups, complete in place, for this change.

The agreed price for Structure Excavation includes the design of the shoring system. The agreed price for excavation and shoring assumes that 219.5 meters of the Steel Piling HP 360 x 132 (metric units), which was paid for under CCO 521, will be available for shoring. The balance of the shoring material cost is included in the price of this CCO. The agreed price for excavation includes the required pile driving for shoring piles, but anticipates that any obstructions to shoring piles are cleared in advance of the piling operation with the sonic drill operation performed under CCO 524S0. Any standby time for the pile driving crew due to obstructions shall be compensated as extra work at force account. The structure excavation price includes placing the excavated material in a covered stockpile at a location near the site. The agreed price excludes the identification, handling, removal or testing of any hazardous or contaminated material, which will be paid for under a separate change order.

The Structure Excavation and Backfill includes only the footings shown on the CCO 524 plans, and does not include any earthwork for CCO 529.

CONTRACT CHANGE ORDER

Change Requested by: Engineer

CCO: 524	Suppl. No. 1	Contract No. 04 - 0120S4	Road SF-80-12.7/13.2	FED. AID LOC.: NO FED AID
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The agreed price for Structure Backfill includes the 0.3 M layer of 20 mm gravel under the footings, and is based on using the excavation spoils for backfill material.

The agreed prices exclude the following items which will be paid for under separate change orders: dewatering the excavation or associated costs to store, treat, test or dispose of water generated from dewatering operations; lane closures or traffic control; grinding and removal of existing pavement; removal of existing barrier rails; removal of existing chain link fence; and moving or installation of barrier rails (Type K).

Cost of Extra Work at Lump Sum\$927,002.00

Total CCO: \$1,177,002.00

Estimated Cost: Increase ☒ Decrease ☐ **\$1,177,002.00**

By reason of this order the time of completion will be adjusted as follows: 0 days

Submitted by

Signature	Resident Engineer William Howe, Senior R.E.	Date
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Approval Recommended by

Signature	Construction Manager Mike Forner	Date
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Engineer Approval by

Signature	Construction Manager Mike Forner	Date
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We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by

Signature	(Print name and title)	Date
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CONTRACT CHANGE ORDER MEMORANDUM

DATE: 7/18/2011 Page 1 of 2

TO: Deanna Vilcheck, ACM /		FILE: E.A. 04 - 0120S4		
FROM: William Howe, Senior R.E.		CO-RTE-PM SF-80-12.7/13.2		
FED. NO. NO FED AID				
CCO#: 524	SUPPLEMENT#: 1	Category Code: BZZZ	CONTINGENCY BALANCE (incl. this change) \$59,245,260.29	
COST: \$1,177,002.00		INCREASE <input checked="" type="checkbox"/>	DECREASE <input type="checkbox"/>	HEADQUARTERS APPROVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
SUPPLEMENTAL FUNDS PROVIDED: \$0.00		IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
CCO DESCRIPTION: OTDD- WB Foundation Work		PROJECT DESCRIPTION: YBITS-1 (Yerba Buena Island Transition Structures)		
Original Contract Time: 1390 Day(s)	Time Adj. This Change: 0 Day(s)	Previously Approved CCO Time Adjustments: 0 Day(s)	Percentage Time Adjusted: (including this change) 0 %	Total # of Unreconciled Deferred Time CCO(s): (including this change) 7

THIS CHANGE ORDER PROVIDES FOR:

This change order provides for the construction of the concrete foundations of the foundation for the bridge widening of the Oakland Touchdown Detour.

Toll Bridge construction has developed a plan to construct a detour at the eastern end of the SFOBB that will advance the Department's goal of the seismic safety opening of the new east span by the end of 2013. The proposed detour would shift existing traffic to the south to allow for the partial removal of the eastern end of the existing westbound structure. This in turn would advance the construction of the new eastbound span of the new structure.

The Toll Bridge Program Oversight Committee (TBPOC) approved the construction of this detour to be performed within the YBITS1 contract at their February 3, 2011 meeting, along with an approved budget of \$51,000,000 for this work. This change order provides for the construction of the foundations for the bridge widening for the westbound portion of the detour. This specific portion of the work (CCO 524 and supplements) was approved by the TBPOC at a sum of \$3,500,000.00 (NOT TO EXCEED) at their May 5, 2011 meeting.

The work includes the construction of foundations for 8 bents and an approach slab including structure excavation, driving steel piles, placing a gravel bed and forming and placing the steel reinforced concrete foundation. Construction of the bridge's superstructure will be performed under a separate change order once the plans are finalized.

CCO 524 has previously been issued for the construction of the pile driving portion of this CCO for \$924,506. This CCO supplement will include the balance of the work: excavation, backfill, bar reinforcing steel and concrete work. The CCO Supplement's cost shall be paid with two components: extra work at agreed price for \$927,002, plus a force account amount of \$250,000 for hauling off spoils, for a total CCO supplement amount of \$1,177,002.00 which shall from funded the contract's contingency funds. This will bring the total CCO 524 + supplements to \$2,123,508 (within the range of the approved \$3,500,000). The approved OTD Detour budget of \$51,000,000 has been allocated to the contingency fund. A cost estimate is on file.

No adjustment of contract time is warranted as the change doesn't affect the controlling operation.

This CCO was requested by Mike Whiteside, YBI Coordination Engineer for SFOBB East Spans Seismic Safety Project, on June 28, 2011.

Maintenance concurrence is required.

CONTRACT CHANGE ORDER MEMORANDUM

CONCURRED BY:			ESTIMATE OF COST		
Construction Engineer:	William Howe	Date		THIS REQUEST	TOTAL TO DATE
Bridge Engineer:	Gary Lai	Date	ITEMS	\$0.00	\$0.00
Project Engineer:	Charles Ho	Date	FORCE ACCOUNT	\$250,000.00	\$250,000.00
Project Manager:	Ken Terpstra	Date	AGREED PRICE	\$927,002.00	\$1,873,508.00
FHWA Rep.:		Date	ADJUSTMENT	\$0.00	\$0.00
Environmental:		Date	TOTAL	\$1,177,002.00	\$2,123,508.00
Other (specify):	Lina Ellis, Str. Maintenance	Date	FEDERAL PARTICIPATION		
Other (specify):		Date	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input type="checkbox"/> NONE <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING		
District Prior Approval By:		Date	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)		
HQ (Issue/Approve) By:	Larry Salhaney	Date	<input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS		
Resident Engineer's Signature:		Date	FEDERAL FUNDING SOURCE PERCENT _____ _____ _____		

CONTRACT CHANGE ORDER

Change Requested by: Engineer

CCO: 524	Suppl. No. 0	Contract No. 04 - 0120S4	Road SF-80-12.7/13.2	FED. AID LOC.: NO FED AID
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To: M C M CONSTRUCTION INC

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. **NOTE: This change order is not effective until approved by the Engineer.**

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.) Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. This last percentage shown is the net accumulated increase or decrease from the original quantity in the Engineer's Estimate.

Perform the following portions of the work for constructing the foundations for Bents E31 through E38 ,and Abutment E39, of the Westbound Structure of the Oakland Touchdown Detour as shown on attached drawings (Sheets 3 through 48 of this change order) as follows:

Extra Work at Unit Price:

Sonic Drilling work:

1 Mobilize and demobilize truck mounted sonic drill rig and crew; 2 each @\$4,198.00 =\$8,396.00

2 Per Diem for Sonic drilling crew, work days and travel days. Rate includes the lodging, meals and incidental expenses for each rig's entire crew for each day; 40 Crew-days @\$518.00 =\$20,720.00

3 Truck mounted sonic drill rig and crew cost per day. Rate includes one drill rig plus crew, including labor and equipment, auger and core barrel systems (up to 8 inch diameter) and temporary casings; 40 Crew-days @ \$7,820.00 = \$312,800.00

The sonic drill crew includes support equipment (such as trucks to haul equipment and personnel) and associated augers, core barrel systems and temporary casings that are sufficient to drill through or remove obstructions (such as stone rip rap) up to 30 feet deep.

The agreed unit prices for the sonic drill rig and crew anticipate that the drilled holes will be backfilled with gravel, and the temporary casings removed.

The agreed unit prices do not include the cost of removing or disposing of spoils, or providing imported backfill material.

The Sonic Drilling unit prices will cover sonic drilling work for permanent piles, shoring piles, and foundation for the Changeable Message Sign (CMS).

Pile driving work:

4 Unload, move and handle pile materials; furnish and install driving shoes and stiffener plates and angle irons; splice piles to 36.5 meter (120 feet) length; drive HP 360 x 132 steel piles to specified tip elevation; cut off excess length at pile tops; and burn holes in pile tops for dowel passage. Lump sum is based on 128 piles; 1 Lump sum @\$604,590.00 =\$604,590.00

The agreed price for pile driving excludes furnishing and shipping steel piling to the site (HP 360 x 132), which will be paid for under CCO 521.

The agreed price for pile driving anticipates that any obstructions are cleared in advance of the piling operation with the sonic drill operation. Any standby time for the pile driving crew due to obstructions shall be compensated as extra work at force account.

The agreed unit prices exclude the following items which will be paid for under a separate change order: removal of existing pavement and base; structural excavation and shoring; backfill, bedding or cushion material; bar reinforcing (including pile dowels); concrete; moving or installation of barrier rails, and lane closures or traffic control,

The agreed prices constitute full and final compensation, including all markups, for this change.

Cost of Extra Work at Agreed Unit Price\$946,506.00

CONTRACT CHANGE ORDER

Change Requested by: Engineer

CCO: 524	Suppl. No. 0	Contract No. 04 - 0120S4	Road SF-80-12.7/13.2	FED. AID LOC.: NO FED AID
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Estimated Cost: Increase ☒ Decrease ☐ \$946,506.00

By reason of this order the time of completion will be adjusted as follows: 0 days

Submitted by

Signature	Resident Engineer William Howe, Senior R.E.	Date
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Approval Recommended by

Signature	Area Construction Manager Deanna Vilcheck	Date
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Engineer Approval by

Signature	Area Construction Manager Deanna Vilcheck	Date
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We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by

Signature	(Print name and title)	Date
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CONTRACT CHANGE ORDER MEMORANDUM

DATE: 4/26/2011 Page 1 of 2

TO: Deanna Vilcheck, ACM /			FILE: E.A. 04 - 0120S4	
FROM: William Howe, Senior R.E.			CO-RTE-PM SF-80-12.7/13.2	
FED. NO. NO FED AID				
CCO#: 524	SUPPLEMENT#: 0	Category Code: BZZZ	CONTINGENCY BALANCE (incl. this change) \$62,357,667.60	
COST: \$946,506.00 INCREASE <input checked="" type="checkbox"/> DECREASE <input type="checkbox"/>			HEADQUARTERS APPROVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
SUPPLEMENTAL FUNDS PROVIDED: \$0.00			IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
CCO DESCRIPTION: Westbound OTDD Bridge Foundation			PROJECT DESCRIPTION: YBITS-1 (Yerba Buena Island Transition Structures)	
Original Contract Time: 1390 Day(s)	Time Adj. This Change: 0 Day(s)	Previously Approved CCO Time Adjustments: 0 Day(s)	Percentage Time Adjusted: (including this change) 0 %	Total # of Unreconciled Deferred Time CCO(s): (including this change) 7

THIS CHANGE ORDER PROVIDES FOR:

The construction of the foundation for the bridge widening of the Oakland Touchdown (OTD) Detour .

Toll Bridge construction has developed a plan to construct a detour at the eastern end of the SFOBB that will advance the Department's goal of the seismic safety opening of the new east span by the end of 2013. The proposed detour would shift existing traffic to the south to allow for the partial removal of the eastern end of the existing westbound structure. This in turn would advance the construction of the new eastbound span of the new structure.

The Toll Bridge Program Oversight Committee (TBPOC) approved the construction of this detour to be performed within the YBITS1 contract at their February 3, 2011 meeting along with an approved budget of \$51,000,000 for this work. This change order provides for the construction of the foundations for the bridge widening for the westbound portion of the detour.

The TBPOC approved (in their May 05,2011 meeting) a Not to Exceed value of \$3,500,000.00 for this change order.

The work includes the construction of foundations for 8 bents and an approach slab including structure excavation, driving steel piles, placing a gravel bed and forming and placing the steel reinforced concrete foundation. Construction of the bridge's superstructure will be performed under a separate change order.

The cost of this change order is \$946,506.00 based on agreed unit prices for the sonic drilling and pile driving portions of the change order. The work will be paid for as extra work at agreed unit price for the cost of \$946,506.00, which shall be financed from the contract's contingency fund. A cost estimate is on file. Further change order supplements will address the structural excavation and backfill, bar reinforcing steel, and structural concrete portions of this change.

This change order is requested by Mike Whiteside, YBI Coordination Engineer, on a memo dated 06/28/2011.

No adjustment of contract time is warranted as the change doesn't affect the controlling operation.

Maintenance concurrence is required.

CONTRACT CHANGE ORDER MEMORANDUM

EA: 0120S4 CCO: 524 - 0

DATE: 4/26/2011

Page 2 of 2

CONCURRED BY:			ESTIMATE OF COST		
Construction Engineer:	William Howe	Date		THIS REQUEST	TOTAL TO DATE
Bridge Engineer:	Gary Lai	Date	ITEMS	\$0.00	\$0.00
Project Engineer:		Date	FORCE ACCOUNT	\$0.00	\$250,000.00
Project Manager:	Ken Terpstra	Date	AGREED PRICE	\$946,506.00	\$1,873,508.00
FHWA Rep.:		Date	ADJUSTMENT	\$0.00	\$0.00
Environmental:		Date	TOTAL	\$946,506.00	\$2,123,508.00
Other (specify):	Lina Ellis, Str. Maintenance	Date	FEDERAL PARTICIPATION		
Other (specify):		Date	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING		
District Prior Approval By:		Date	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)		
HQ (Issue/Approve) By:	Larry Salhaney	Date	<input checked="" type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS		
Resident Engineer's Signature:		Date	FEDERAL FUNDING SOURCE PERCENT _____ _____ _____		

ITEM 3: OTHER BUSINESS

No Attachments